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CANNON, LONDON" (2 Words)
No. 2259.



THE BEST HOUSE FOR ALL PHARMACEUTICAL PRODUCTS

Proprietors of the "Silver Churn" Dairy Preparations.

OLDFIELD, PATTINSON & Co.
TELEGRAMS: "OPIUM." MANCHESTER.
PHONES: City 984 & 4038.



For Spring & Summer Demand

"Torch" Brand Health Saline

Retails (P.A.T.A.) at 9d. and 1/4 PER TIN.

9d. tins ..	5/6 per doz.	1 gross lots, 5/3 per doz	Carriage paid on
1/4	10/-	1 " 9/6 "	£5 net orders

Allen & Hanburys Ltd.
Bethnal Green, E. 2.



45%
PROFIT.

MAY, ROBERTS' MAXIMS

No. 5.



Sometimes it pays better to give away
- an apple than to eat it yourself. -



That's why we offer to send a copy of our New Catalogue free to any Pharmacist who will write for it. If we charged 7/6 each for them, which is what they cost us, we should probably have quite as many applications as we do now, for this List has come to be recognised as the Standard work of reference for the retail pharmacist.

Sometimes we are asked for a List merely for the purpose of getting down someone else's prices, but we don't worry about it, for in nine cases out of ten such a man becomes ultimately a customer.

The biggest line that we sell is Service, and since you cannot put a price on this, it is beyond rubies; you will not find it anywhere in the List, but it is the fact that we do render the Retailer such good Service that is the explanation of our steady growth.

Part 1. Sundries and Glass.

Part 3. Photographic Goods.

Part 2. Proprietary Medicines.

Part 4. Stationery and Tobacco.

Part 5. Drugs and Counter Specialities.

Send a postcard for a copy now.

May, Roberts & Co., Ltd.

7/13 Clerkenwell Road, London, E.C.1

And at

Dublin, Liverpool and Plymouth.

ENO'S

"FRUIT SALT"

is the one Effervescent Saline that has survived all the ups and downs of public fancy. It shows increased sales every year.

Our plans for Advertising Eno's "Fruit Salt" during this year are more extensive and far-reaching than ever before.

Co-operate with us and get your share of the big Profits by showing "Fruit Salt" in your windows and on your counter.

SOME TEMPTING WINDOW DISPLAY OFFERS :

Description of Case	Contents of Case	Costs you	Yields	Total Profit	Percentage of		Profit per Bottle on	
	3/- Size & 1/9 Size				Profit on Selling Price	Profit on Buying Price	3/- Size.	1/9 Size.
Case G	6 doz. & 9 doz.	£14 18s. 0d.	£20 5s. 0d.	£5 7s. 0d.	26½%	36%	9½d.	5½d.
" H	2 " " 6 "	£7 8s. 0d.	£9 18s. 0d.	£2 10s. 0d.	25½%	33½%	9d.	5½d.
" K	1 " " 4 "	£4 12s. 0d.	£6 0s. 0d.	£1 8s. 0d.	23½%	30½%	8½d.	5d.
" L	8 " " 5 "	£14 9s. 0d.	£19 13s. 0d.	£5 4s. 0d.	26½%	36%	9½d.	5½d.
" M	4 " " 3 "	£7 15s. 0d.	£10 7s. 0d.	£2 12s. 0d.	25½%	33½%	9d.	5½d.
" N	2 " " 2 "	£4 7s. 6d.	£5 14s. 0d.	£1 6s. 6d.	23½%	30½%	8½d.	5d.

ADVERTISING MATERIAL.

We have made several new additions to our advertising display material, including the Eno Giant Dummy, and Grape and Package "cut-out."

Full particulars will be sent on application to the Sales Manager.



J. C. ENO, LIMITED, Lever House, Victoria Embankment, E.C.4.

BIG ADVERT

Co-operate with



We both want business, and all we need to force it is good team work. We realise, just as you do, that "playing a lone hand" is a useless game. Success can only be achieved if we join forces. Our advertising—attractive and forceful as it will be—can only be effective if we have your help and co-operation. Read carefully through the following description of our advertising plans, and you will see that we offer you direct participation in our scheme, and a full share of its advantages. We are making the first move; it's up to you to respond.

KEENE'S "One night" CORN CURE

We are starting our campaign by taking very large spaces in certain of the leading newspapers throughout the British Isles. In the South of England we are taking the whole of the outside back page of the "DAILY EXPRESS." For the North of England our advertisement will occupy from a half to a full page in the "DAILY DISPATCH." For Scotland we shall have a whole page in all the editions of the "PEOPLE'S JOURNAL." For the North of Ireland from a half to a full page in the "BELFAST EVENING TELEGRAPH" will be used.

We want you to allow us to include your name and address in one or other of these advertisements as stocking "Keene's One-Night Corn Cure." The illustration given opposite is a facsimile reproduction of the

very striking advertisement that will be inserted in these papers, and you can see from this how your name and address will appear.

In return for this publicity, and to ensure the demand being met, we ask you to place with us an order for at least 4 dozen 1/3 tins at 11/3 per dozen net, carriage paid, whilst with orders of 6 dozen, which entitles you to 1 dozen tins extra, free of charge, for a 14 days' window display, we will send you one of our new three-fold window screens (28 ins. by 19 ins.) printed in five colours. This offer guarantees you a profit of 55% or 37/6 in cash on your outlay.

The design and shape of the three-fold window screen may be seen in the illustration opposite, but this illustration can-

not, of course, convey any adequate idea of the handsome colouring of the original.

Your order will be accepted on the understanding that (unless you express a contrary) the goods will not be dispatched just before the advertisements appear of which we will announce in due course.

A letter announcing the full scheme, enclosing a full-sized facsimile reproduction of the advertisement, and a reduced reproduction of the three-fold screen, sent to you by post. If you have not it, please send us a postcard, and forward duplicate. If this letter has reached you, do not delay to fill in the order you wish your name to appear in. The advertisement covering your district space in each is strictly limited.

★ You have glanced at—perhaps even read carefully through—this advertisement. It has probably interested you. And yet it is so easy, as you know, to put it aside for consideration later on—and to forget it. Don't let this happen in this instance. Decide at once, and so be sure of your name and address appearing in our advertisements.

— it will pay you

ING SCHEME

no need to have corns!

no need to have corns!
no need to have corns!
Put it which way you will,
the fact is there is
no need to have corns!

WHERE YOU CAN BUY THE REMEDY

WHERE YOU CAN BUY THE REMEDY

KEENE'S
"One Night"
CORN CURE

"MAKES YOUR FEET GLAD!"

1/3 PER BOX

CORN CURE - cures while you sleep!

BRANDY
in Emergencies
MARTELL

corns!

SIXTH EDITION

corns!

YOU CAN BUY THE REMEDY

KEENE'S
ONE NIGHT
CORN CURE

13 PER TIN

TO DAY
Cures while you sleep

KEENE'S
ONE - NIGHT CURES LIMITED
Manufacturing Chemists
KEENE'S LABORATORIES
52 Gray's Inn Road, London, W.C.1

TEST

ISOPROPYL ALCOHOL

to make certain that it is *free from Acetone*, the presence of which is highly objectionable.

To a few c.c. of freshly-made 5% Sodium Nitroprusside solution in a test tube, add a few decigrams of Ammonium Chloride and an equal volume or slightly more of .880 Ammonia. The Isopropyl Alcohol is then carefully poured on to the top of this solution so that two layers are formed. *No purple ring* should appear between the layers on standing.

AVANTINE

being synthetically prepared from purest material

1. IS ENTIRELY FREE FROM ACETONE, PETROL HYDROCARBONS, etc.
2. Contains 95/96% of the Alcohol, the remainder being water.
3. Has a Density of .810 at 60° F.
4. Is NOT artificially scented.
5. Is the *only* British Brand.

N.B.—Experience shows that Avantine can be used in the preparation of practically all perfumes and essences, the proportion used varying in different preparations.

Experience will show the percentage which can be most advantageously mixed with water or spirit, *with either of which it is perfectly miscible.*

Ask for samples from the sole Makers—

HOWARDS & SONS Ltd. (Est. 1797), ILFORD, LONDON.

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"STAFFALLENS"

SAFROL

Write to us for Sample and Price.

Distillery
LONG MELFORD,
SUFFOLK.

STAFFORD ALLEN & SONS, LTD.

COWPER STREET, FINSBURY,

LONDON, E.C. 2.

Packing Warehouse:
ARDLEIGH GREEN,
ESSEX.

Telephone:
Clerkenwell 2100 (4 lines).

Telegrams:
Finsquare, London."

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**BABIES
LOVE IT!**

Cow & Gate House
GUILDFORD, SURREY

**P. A. T. A.
LARGE SALE
PLUS
BIG PROFITS
25% to
33 1/3% PROFIT**

Made by Sellers of

**Cow & Gate
Milk Food**

**EXTENSIVELY
ADVERTISED.
INCREASING
DEMAND.**

"SANITAS" TOILET PAPER

Dear Sir,

If you are not already doing a good trade with "SANITAS" TOILET ROLLS, we would like you to study the following carefully.

We might say that we consider our Toilet Rolls the best line in medicated toilet paper at present on the market, but to popularise them still further we are making the following special offer:

1. We will send you 3 dozen "SANITAS" TOILET ROLLS and 1 Toilet Roll Holder, Carriage Paid, for 18/- nett.
2. We will send you 6 dozen "SANITAS" TOILET ROLLS and 2 Toilet Roll Holders, Carriage Paid, for 35/- nett.
3. We will send you 12 dozen "SANITAS" TOILET ROLLS and 4 Toilet Roll Holders, Carriage Paid, for 68/- nett.

If you take advantage of one of these offers, we think that you will find—as a large number of our customers have already found—that not only will you make a good profit on the Toilet Rolls, but that your sales for "Sanitas" Fluid and Powder will also increase inevitably.

We will send you a sample roll of the paper on receipt of a postcard, and beg to assure you of our best attention.

Yours faithfully,

THE "SANITAS" COMPANY LTD.



A Quick Selling Line!!

Lavender MOTH TABLETS.

**Saves Clothes, especially
Woollens and Furs, from
destruction by Moths.**

☛ *Sample tin free on application.*

Price:- 3 dozen @ 5/- per doz.

12 doz. @ 4/9 per doz.

H. & T. KIRBY & Co., Ltd.,

Newman House, WILLESDEN GREEN, LONDON, N.W.2.

HAY'S ESSENCES



— FOR — AERATED WATERS

MESSINA LEMON
LIME JUICE & SODA
PALE DRY GINGER ALE
STONE GINGER BEER
SWEET ORANGE
JAMAICA GINGER

SAMPLES AND QUOTATIONS ON APPLICATION

HEAD OFFICE
&
LABORATORIES
HULL

WM. HAY, LTD.
Essence Distillers,
HULL & LONDON

LONDON DEPOT,
3 BROWNING ST.,
WALWORTH RD.,
S.E. 17.

Telegrams "Ginger Hull"; "Bushworth London."

Codes: A B C, 5th Edition; Bentley's.

“N.C.F.” Brand

COCAINE & SALTS

ÆTHOCAINE

(Chemically and physiologically identical with Novocain).

HOMATROPINE

& SALTS

Manufactured by

THE NEDERLANDSCHE
COCAINEFABRIEK,
AMSTERDAM.

“RHODIA” Brand

ANTI-PYRETICS

GUAIACOL PRODUCTS

PHOTOGRAPHIC

CHEMICALS

SALICYLATES

VANILLIN

and other fine chemicals.

Manufactured by

SOCIÉTÉ CHIMIQUE
DES USINES DU RHÔNE,
PARIS.

QUININE and SALTS

QUININE DICARBONATE

QUININE ETHYLCARBONATE

CINCHONIDINE

CINCHONINE

QUINIDINE

QUINOIDINE

AND SALTS

Manufactured by the

BANDOENGSCHE KININEFABRIEK
AMSTERDAMSCH E CHININEFABRIEK
NEDERLANDSCHE KININEFABRIEK

Apply to

Tel. No.
City 6550
(8 lines)

R. W. Greeff & Co. Ltd.
THAMES HOUSE, QUEEN STREET PLACE, LONDON, E.C.4.

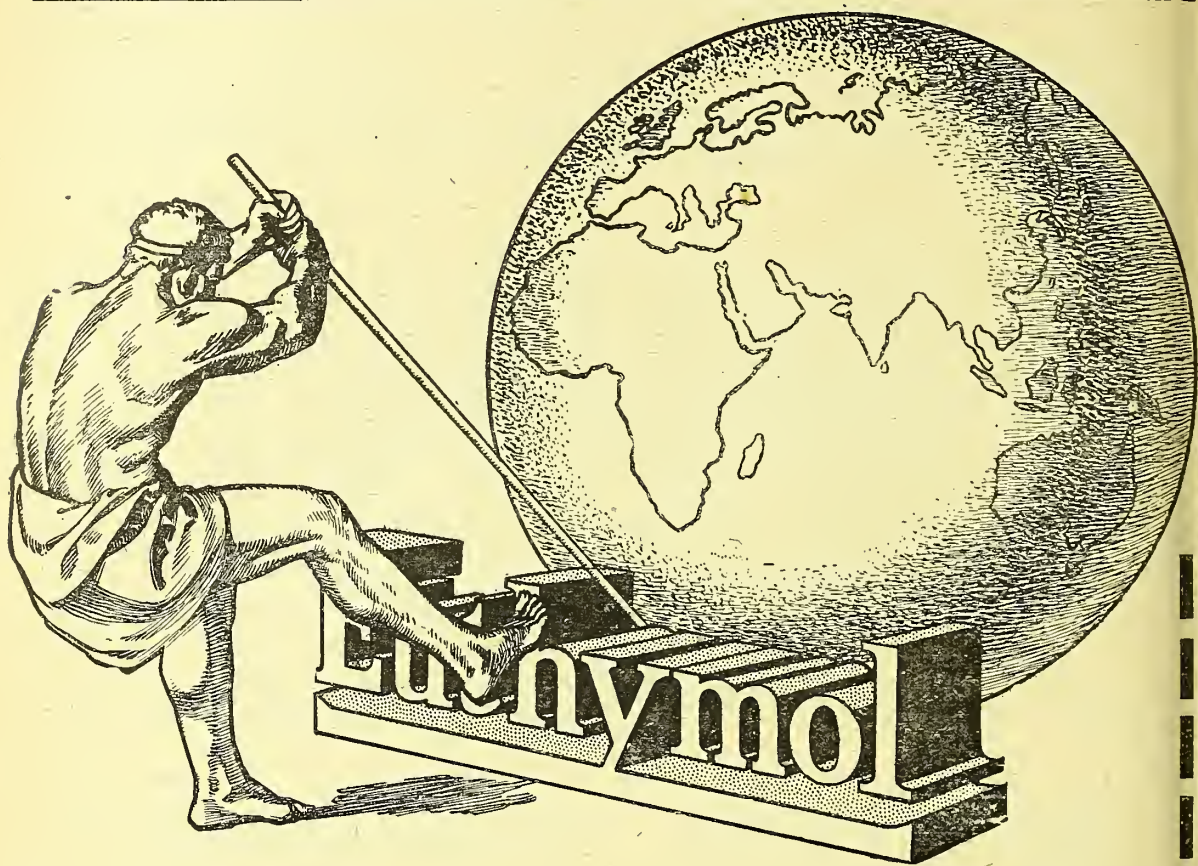
Tel. Add.
“Greeff Cannon,
London.”

Branch Office

PALATINE BANK BUILDINGS, 10, NORFOLK ST MANCHESTER.

Tel. No. City 5706/7.

Tel. Add. Greeff, Manchester.



THE NEW SPRING CAP IS A POWERFUL SALES LEVER

The term "Captive Cap" and the device to which it applied were originated by Parke, Davis & Company in 1910. Owing to manufacturing difficulties during the War their use was suspended in 1916.

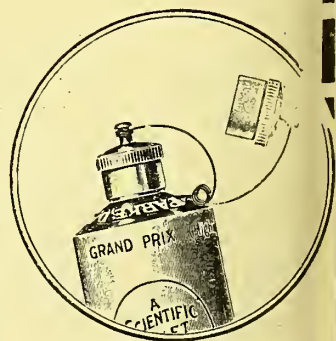
Euthymol Tooth Paste tubes are now fitted with the ingenious "SPRING CAP" illustrated below. When unscrewed, the cap springs clear, and is held in a position convenient for replacement.

Novelty has a strong appeal, and increased sales will result from the display of the Spring Cap.

Have you ordered yet?

TERMS ON REQUEST
T.J.42

PARKE, DAVIS & COMPANY,
50-54, Beak St., LONDON, W.1.



Maw's Page



Don't help your Competitors

IT isn't necessarily the noisy orator who has the greatest effect on his audience. It isn't always the slogger who scores most runs, or the hard hitter that wins the fight. Brains accomplish more than brute force, and Misdirected Energy may actually help to defeat its own object.

This is just as true in business as in everyday life, and the business of pharmacy is no exception.

You may work twenty-four hours a day on your business with all the energy and enthusiasm of which you are capable, but you will only achieve lasting prosperity by making sure at the start that you are applying your energy in the right direction.

Building business for a line which can be purchased from outside competitors is misdirected energy. It takes a lot out of you, and adds to your competitors' score.

Put your best efforts into pushing sales of those lines which bring certain repeat orders, and which can only be purchased from the chemist. You may then be sure that you are directing your energies in such a way as to secure the maximum result with the minimum effort, the greatest profits with the smallest expenditure.

Maw's lines are supplied to the chemist only. When you sell the products of the House of Maw you are helping both yourself and your profession as a whole.

Buy it at Maw's.

S. Maw, Son & Sons, Ltd.,
Aldersgate St., London,
and Barnet.

Telephone: City 7
Private Branch Exchange
Telegrams: Eleven Cent London

TRADE



MARK

Cables: Eleven London
Code: A.B.C. 4th & 5th Edition

HOVENDEN'S TOILET PREPARATIONS

Superior Quality and Finish.

NEW SERIES TALCUM POWDER ASSORTED PERFUMES. Attractive Finish.



No. 4807. 7/6 dozen.
87/- gross.

Still the LEADING LINE

SHOW CARD



with 3 dozen lots.

No. 25. 3 oz. (about) 8/6 doz.
„ 4861. 4 1/2 oz. 15/- doz.

ANTISEPTIC DUSTING POWDER

In attractive boxes holding about 1 lb.
Made in Violet, Verbena, Lavender,
Carnation, Rose.

No. 4838. - - 30/- dozen.



BRILLANTINE



BEST
QUALITY

PREPARED
WITH PURE
SPIRIT.

No. 4785.

No. 4785. 4 oz. (as illustration), 30/- doz.
No. 4814. 2 oz. ditto, 17/6 doz.
No. 4790. 3 oz., flat, corked bottles, 16/- doz.

BRILLANTINE



No. 4762. 2 oz (about), screw capped glass pots in artistic cartons, transparent wrappers, assorted perfumes, 10/- doz. 115/- gross

No. 4813. Enamelled tins, 7/6 doz.

By 3 doz., 7/3 doz., 84/- gross
NOT IN CARTONS.

VIOLET OIL

FINE
QUALITY



No. 4776.
4 oz. (as illustration)
23/- doz.

No. 4786. 2 oz., flat corked bottles, 9/9 doz.

No. 4787. 3 oz. 13/6 doz.

No. 4834. 4 oz. 18/- doz.

No. 4804. 2 oz., stoppered bottles, 13/6 doz.

R. HOVENDEN & SONS, Ltd., LONDON

89, 91, 93 & 95 CITY ROAD, FINSBURY, E.C.1.

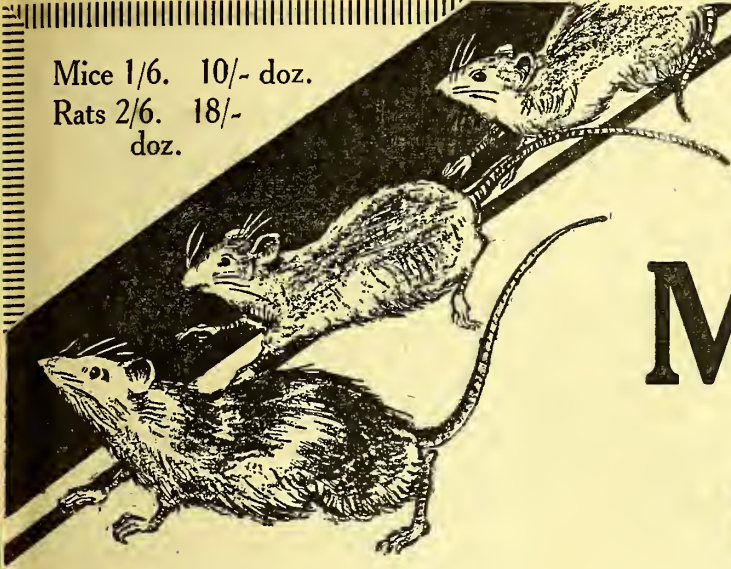
And 29, 30, 31, 32 & 33 BERNERS ST., OXFORD ST., W.1

Tel.: Clerkenwell 1260 (2 lines).

Factory: 41 to 53 BRITANNIA ROW, ISLINGTON, N.1.

Tel.: Museum 2810 (3 lines).

Mice 1/6. 10/- doz.
Rats 2/6. 18/-
doz.



RATS MICE AND RENT

A chemist has confided in us that the profit on his sales of "Liverpool Virus" was sufficient to pay his rent.

We smiled our satisfaction, but did not express surprise; for we know that the number of eightpences—the profit on each tin of "Liverpool Virus" for Mice—required to satisfy the landlord is quickly earned in sales of "Liverpool Virus" by those who perceive their rent and pocket money in the Public's rats and mice.

We have commenced our new and vigorous advertising campaign—emphasising particularly the destruction of Mice, and offer pulling showcards for window display.

Why should not "Liverpool Virus" pay *your* rent?

EVANS

EVANS SONS LESCHER & WEBB, LTD.
LIVERPOOL New York LONDON

CRUSH-LEMON

The Perfect Lemonade Powder. Sugar Sweetened.

The Right
Drink for :
PICNICS
TENNIS
GARDEN
PARTIES
and
EVERYDAY
USE

A cool drink
for hot Sum-
mer days.

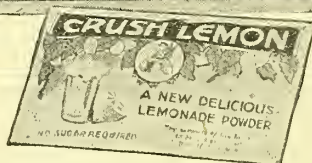


"Little
Lemonada"
sells it for
you.

This striking
showcard in
colours is
sent with all
orders.



A popular favorite



We now pack three popular sizes :

8 oz. Enamelled tins (Retail 1/-) 8/6 doz., 3 doz. 8/3 doz., 1 gross 8/- doz.
4 oz. " " (" 7½d.) 5/6 " 6 " 5/3 " 1 " 5/- "
2d. Envelopes, 15/- gross.

ORDER YOUR STOCKS NOW FROM :

POTTER & CLARKE, Ltd.

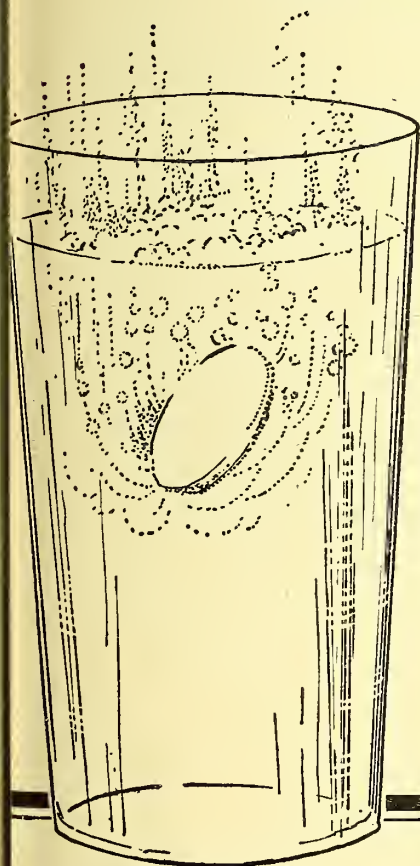
60, 62 & 64 Artillery Lane, LONDON, E.1.

And at 24 Luna Street, Great Ancoats, MANCHESTER.

AYRTON'S LEMONADE TABLETS

There's nothing to equal these thirst stayers, and if you are not already stocking—one of the year's opportunities is passing your way.

The Public have decided:—



That they are the most palatable
That they are preferable to crystals
or powders

That they make the most easily
prepared summer drink

That they are cheap and economical
For:—

PICNICS	OUTINGS
PARTIES	BOATING
TENNIS	CRICKET
AND ALL SUMMER OCCASIONS	

Just a tablet dropped into a glass of plain water makes a delightfully refreshing effervescent drink—already sweetened.

UNIQUE DISPLAY MATTER AVAILABLE AND
LIBERAL COUNTER BILLS WITH EVERY ORDER

P.A.T.A. 6½d. per tin of 6 tablets

54/- gross with 1 dozen bonus added
to each order for one gross.

Note our telegraph address.
You'll probably need it.
"SUNDRIES," LIVERPOOL.

AYRTON, SAUNDERS & Co., Ltd.
HANOVER ST. **LIVERPOOL.**



In Green Bottles, Registered.

Frozoclone

REGD.

The Original and Best
SOLID EAU DE COLOGNE

has many imitators but no equal.

Its elegance and utility appeal to all.

Made from the finest Eau de Cologne. Refreshing when rubbed on the forehead, pleasant as a smelling bottle, invaluable in a heated atmosphere and when travelling. A real acquisition to every household. Excellent after shaving. A boon to those in hospital.

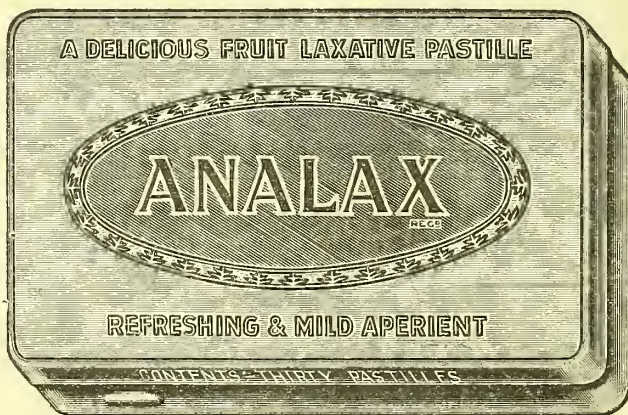
Retails at 3s. 6d. Minimum (P.A.T.A.) Per doz. 32/-

SPECIAL TERMS FOR BONDED SHIPMENT OF 4 gross minimum.

SOLID ENGLISH LAVENDER

TERMS AS FOR FROZOCLONE.

Similar size and packing
 as "FROZOCLONE"
 but in BLUE glass.



THE IDEAL FRUITY LAXATIVE

In Pastille form. Delicious, Reliable, Effective.

Retails at 2s. 3d. minimum. Per dozen 21s.

REDUCED PRICES FOR EXPORT.



THE NAIL POLISH

with new and distinctive features.
 Softens the cuticle. Brilliant polish.

Retails 1s. 9d. Per dozen 15s.

R. DEMUTH'S LABORATORIES
 68 Salusbury Road, and Montrose Avenue, London, N.W.6



TRADE MARK



The standard one-gross package for 1½d. Castols is a richly coloured canister of great strength and attractiveness, which, having served its turn as a Sales-compelling Display Package, is useful for storage purposes. As for the Castols themselves, fifteen years of growing popularity is sufficient proof of their merits.

Castols are sold in 1½d. packets and 9d. & 1/6 tins. Trade prices 12/- gross & 6/6 & 13/- doz. respectively. The 9d. and 1/6 Tins are on the P.A.T.A. Owing to its high cost the above Canister cannot be supplied with less than one gross of Castols.

THOMAS KERFOOT & CO. LTD.
BARDSLEY VALE, LANCASHIRE,
 & Bardsley House, London, N.1
 ESTABLISHED 1797.

DODGE & OLCOTT CO.,20 MARK LANE,
LONDON, E.C.3.

THE "D & O" BRAND

*is the "Standard of Quality" for*OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT,
SASSAFRAS, ETC.BALSAMS of Copaiba, Peru, Tolu.
TONKA BEANS, Angosturas.Phone—
CITY 2468.Telegrams—
"EGDARF, FEN, LONDON."

Telegrams: Raab, Roermond.

Aromatic Chemicals	Flower Oils
Synthetic Perfumes	Essential Oils

CHEMICAL WORKS, ROERMOND

H. RAAB & CO., ROERMOND, HOLLAND.

Agent for the U.K.:

MR. ALFRED PAUL WHITE, 5 Water Lane, Gt. Tower St., London, E.C.3

Telegrams: Whaiten, Bilgate, London.

JAKSON'S
PEPPERMINT, LAVENDER
& CAMOMILE OILS

are the BEST.

Produced and Prepared by
THE LARGEST GROWERS & DISTILLERS
IN ENGLAND.

Distillery:
J. JAKSON & CO. (Mitcham Rd., 1921), LTD.
Mitcham Road, WEST CROYDON.

AGENTS for the U.K.:
F. NEWBERRY & SONS, LTD.
27 & 28 Charterhouse Square, London, E.C.1

**IT PAYS TO
STOCK THIS STROP**

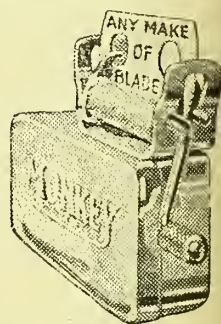
*Every Safety user wants one.
Over 25,000 already sold.*

Extensively advertised in
the Daily Papers.
A display in your window
will not fail to attract.

The Monkey Strop
is really efficient and re-
liable and requires no
adjusting.

33 1/3 % PROFIT

*Samples at dozen rate.
Special offer 6 strops packed
with stratted Show Stand
21/- c.w.o.*



"De Luxe" Model, in Nickle-Plated Case.
Retails at 5/6. Wholesale 45/- doz.

Showcards etc. Supplied. Orders through Wholesalers

DOUGLAS KIRBY & CO.
(Dept. H) Eastgate House, Gloucester.

Are you prepared

For the big increase
in sales now coming?

Our new Press campaign started Sunday, May 6th, and our price to the trade of large flat tins **EUCRYL POWDER** is down to 8/-

How are you equipped to meet demand?

Remember the retailer who shows the goods gets the trade, so let your windows proclaim you are there with Eucryl.

Let us pay you for your windows.

Get in stocks early. Write us to-day.

EUCRYL, Ltd. - Southampton

DEARBORN (1923) LTD.

37 Gray's Inn Road,
LONDON, W.C.1.

Toilet Specialties.

	Price per doz. to Retailer	Selling Price P.A.T.A.
PILENTA SOAP ... A complexion soap.	10/-	1/-
PROLACTUM ... For the lips.	10/-	1/-
PARSIDUM JELLY ... For wrinkles.	10/-	1/-
ALLACITE OF ORANGE BLOSSOM ... A dressing cream.	22/6	2/6
BORANIUM ... A hair tonic.	22/6	2/6
CLEMINITE ... For a face lotion.	22/6	2/6
COLLIANDUM ... For a face tint.	22/6	2/6
PERGOL ... A deodorant.	22/6	2/6
TEKKO PASTE ... Camphor cream.	22/6	2/6
STALLAX ... For a shampoo.	22/6	2/6
JETTALINE ... For clearing the skin.	31/6	3/6
PHEMINOL ... A depilatory.	36/-	4/-
MENNALINE ... For the eyelashes.	36/-	4/-
MERCOLIZED WAX ... A face cream.	31/6	3/6
STYMOL ... For oily complexions and blackheads.	36/-	4/-
SILMERINE ... Hair-curling fluid.	22/6	2/6
BARSYDE ... Dandruff eradicator.	22/6	2/6
TAMMALITE ... For grey and faded hair.	22/6	2/6
LIQUID PERGOL ... To check excessive perspiration locally.	31/6	3/6
BICROLIUM ... For whitening the hands.	22/6	2/6
HARAPOSA ... Nut oil shampoo.	22/6	2/6
COCONOIDS ... For figure development.	31/6	3/6

The Products of

Messrs. PARKER, BELMONT & CO.

CLYNOL BERRIES	{ 36/-	4/-
For obesity.	{ 58/6	6/6
SOFT PALERIUM...	45/-	5/-
For wrinkles.		
LIQUID NAIL POLISH ...	10/-	1/-
Brilliant and lasting.		

Stocked by ALL Wholesale Houses.

COLONIAL DEPOTS AND AGENCIES.

Australia: ALL WHOLESALE, & DEARBORN (Australia), Ltd., Grace House, Clarence Street, Sydney.
South Africa: LENNON Ltd, Cape Town, etc.
SIVE BROS. & KARNOVSKY, Johannesburg.
India: FRAMJEE & SON, Bombay.
SMITH, STANISTREET & CO., Calcutta.
New Zealand: SHARLAND & CO., Auckland & Wellington.
South America: DEARBORN (South America), Ltd., Calla Salta 264, Buenos Aires.
Straits Settlements & Federated Malay States: MEDICAL WALL, Ltd., Singapore.

STILL ON TOP

ANZORA still keeps on top for quality and demand. A bottle sold to a new customer means satisfaction and a regular customer. Don't disappoint, always keep a stock handy, and be ready to oblige.

TRADE TERMS:

12/- doz. retail at 18/- 20/- doz. retail at 30/-



MASTERS THE HAIR

Anzora Perfumery Co., Ltd., Willesden Lane, London, N.W.6.

PEBECO

ORIGINAL TOOTH PASTE

(Biersdorf's).

Special Offer to Chemists & Wholesalers.

1/3 tubes - 4/6 per dozen.
7d. " - 2/6 "

Stock in London. Book Orders AT ONCE to secure these prices. Special Quotations for Shippers.

MAURICE N. LEVY, 43a BARBICAN LONDON, E.C.1
Telephone: CLERKENWELL 5282.

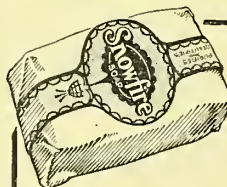
"SAMBOY"

HAIR TONIC

is made from the purest materials which combined, provide a genuine tonic, unrivalled in its beneficial effect upon the hair and scalp. It is called "a wonderful grower," and may be used by young and old without harm; is especially good in relieving irritation, and cleansing the scalp. It preserves the colour of the hair.

To be obtained from maker on sale or return terms, but is a ready seller. Everyone likes "Samboy."

"SAMBOY," 22 STRAND, RYDE, I.W.



A Soap with the "SNOWFIRE" Prestige

"Snowfire" Soap will draw custom to your shop. Free from alkali and containing the special emollient properties which have made "Snowfire" famous, it can be safely recommended for baby's delicate skin or as a toilet soap for the promotion of skin health for either sex. A soothing soap for tender skins that sells on its merits.

Snowfire SOAP

Write to-day for terms.

F. W. HAMPSHIRE & CO., Ltd.,

Riverside Works, Derby.

is well advertised, offers liberal profits and will prove a custom-drawing addition to your stocks.



The HENNA CULT

of Hair Beauty, based
on the famous

EVAN - WILLIAMS
ORIGINAL
HENNA SHAMPOO

daily extends its bound-
aries, and is now a
subject for popular
journalism.

It pays to sell this famous line.

You will find full details of terms and
prices in the current issue of "THE
SHAMPOO SALESMAN," a copy of
which is gladly sent on request.

Be sure to order



Wholesale only :

THE EVAN-WILLIAMS CO., LTD.
18 Ogle Street - LONDON, W.1.

Ma Chérie

(REGD.)

Toilet Preparations and Perfumery.

FACE POWDERS 4 shades—White, Rachel,
Chair (Natural) and Rose. Three sizes
4/-, 6/6, 10/- doz.

SOLID POWDERS In 10 shades—White,
Rachel, Naturelle, Rose, Rouge, Incarnat,
Rouge Foncé, Rouge Brunette I, Rouge
Brunette II, and Egyptienne.
In card boxes, with puff ... 4/- doz.
In gilt metal boxes, with puff 8/- "

VANISHING CREAM Specially prepared
that it may be used as a Day or Night
Cream—a real Skin Food in All China
Pot, each pot in carton 10/- doz.

SOAP LEAVES 40 leaves in a book. Sell
at sight to all golfers, motorists, doctors,
etc. Invaluable for washing in emergency
as these can be carried in pocket book.
Antiseptic and delightfully perfumed.
30/- gross.

SHAMPOO POWDERS Each shampoo
contains sufficient for 3 wet shampoos.
Unbeatable for quality and price.
12/- gross.

TOOTH PASTE Specially prepared and
sweetened with Saccharin to ensure that
no anti-dental constituent is contained in
its manufacture. 8/- doz.

DIPLOMAT Regd.
SHAVING STICK in nickel case, 8/-
doz. **RELOADS** for above in cardboard
outer, 4/3 doz. (reduced wholesale price).

MA CHÉRIE BATH SOAP 6 in box,
assorted perfumes and each tablet packed
separately. 5/6 doz. (reduced wholesale price)

MA CHÉRIE BATH SOAP (New Shape)
Made absolutely flat. Will not slide about, each
tablet cellophane wrapped. 4 in box assorted
perfumes. 6/6 doz. (reduced wholesale price).

NOTE.—In cases where we have reduced wholesale prices P.A.T.A.
prices remain as heretofore. Cash discounts and "all
goods carriage paid" is not affected by reductions.

MA CHÉRIE BATH SALTS
40 oz. in glass stoppered jar. We beg to advise
our numerous clients that the above well-known
line has been advanced from 40/- dozen to 60/-
dozen and the retail price to 7/6, owing to the
advanced cost of production. In 14 different
perfumes.

Chemists wishing to make a good invest-
ment for the Spring are recommended to
lay in a stock at present price.

Johann Maria Farina Eau de Cologne
(Professor Dr. Pilgram)
We have still a small quantity of this line
remaining, in 3 sizes as advertised.

MA CHÉRIE, Ltd.

London House : 35 Crutched Friars, E.C.3



Parfumerie

Bourjois

Paris

The Celebrated
Ashes
of
Roses
(Solid Face Powder)

Price: 15/- per doz.
P.A.T.A. Price: 1/9 per box.

A. Bourjois & Cie, Ltd., 66 Carter Lane, London, E.C. 4.

Also manufacturers of the famous POUDRE de RIZ de JAVA { No. 45, 10/- per doz. P.A.T.A. 1/3 per box.
No. 495, 7/- per doz. P.A.T.A. 10½d. per box.

TOPAX

FOOT REMEDIES (Regd.)

Are Good Sellers Because—

There is a trade discount of 33½% off all retail prices, together with a BONUS on all orders of £5 and over. Topax Foot Remedies are prepared by scientific processes from pure selected chemicals, ensuring satisfaction to the user. They are packed in attractively coloured cartons, boxes, etc., characterised by the same distinctive Topax Trade Mark, and form an exceedingly fine display.

	Retail Price		Retail Price
FOOT BATH SALTS, 10½	1/6, 2/6	CORN CURE	1/3
FOOT SHAMPOO	1/6, 1/3	CORN PLAISTER	1/9
FOOT POWDER	1/-	CORN STRAPS	1/-

Prepared by **The TOPAX Company, Barnet, Herts**

Write to-day for full particulars from the distributors,
Associated Supply Houses, Ltd. 3/4 London Wall Avenue, E.C.2

ALBERT PAGNEIZ

Puff Manufacturer

7a PLACE DE LA CHAPELLE
BRUSSELS.

Inquiries invited to London Office:

33 Chingford Road, London, E.4

PERFUMERS—SAVE LABOUR!

Headquarters for:

Vanishing Creams, Shampoo Powders, etc., in bulk or packed. Samples and prices on request. Makers of the "O-Pine-O" Toilet and Household Soaps. The special feature of these soaps is that they contain all the natural Glycerine.

A trial will convince as to the very high quality of these goods.

"O-PINE-O" MFG. CO., LTD., Montague Rd., Hornsey, London, N.8.

PUFFS of ALL KINDS in DOWN and WOOL SOLID FACE POWDER

COMPLETE WITH PUFFS.

Inquiries invited by makers,

F. SCHUTZE & CO., Ltd.
BLACK BULL WORKS,
Caledonian Market, London, N.



Talcum Powder

OF ALL GRADES
FOR ALL PURPOSES

FOR SAMPLES AND PRICES APPLY TO:

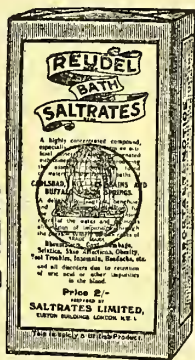
W. Harrison & Co., Ltd.
16 MINCING LANE, LONDON, E.C.3

And at

14 MARKET PLACE, MANCHESTER.

NO OTHERS

ARE LIKE THEM



They Stand Alone in a Class by Themselves

ALKIA SALTRATES and REUDEL BATH SALTRATES

are used and highly recommended by EUGENE CORRI, GEORGE ROBEY, JIMMY WILDE, TED (KID) LEWIS, and hundreds of other well-known people whose names, mentioned in our advertisements by special permission, are sufficient guarantee that our products possess merits above any others in their respective lines.

NO WONDER every sale always means a satisfied customer. He thenceforth becomes a regular purchaser of our lines whenever anything of the kind happens to be needed. Your customer requires no persuasion after he has once given our preparations a trial. He then **KNOWS** they are just what he wants, and is interested in no others. In other words—after you make the first sale our goods go on selling themselves.

Alkia Saltrates

A widely advertised product, which represents the maximum of possible efficiency in a saline, and the best value obtainable for the money. Being highly concentrated, exceptionally small doses are sufficient, and there is no trace of any salty or other unpleasant taste.

Reudel Bath Saltrates

The best selling and most fragrant, refreshing, beneficial, and all-round satisfactory preparation for the bath or for general toilet purposes. Especially recommended in cases of foot trouble, or rheumatic pains, stiffness, etc. Always being extensively advertised.

YOU CAN STOCK THESE RAPIDLY MOVING LINES ON GUARANTEED SALE TERMS

Carriage Paid in United Kingdom on orders for three dozen, which may be assorted.

Showcards of strong selling power sent free on request.

Write for our Special Terms for Counter Display.

SALTRATES LIMITED, Euston Buildings, London, N.W. 1.



Men buy them!
Women buy them!
Children buy them!

ARE you taking advantage of the increased demand for Sorbo Sponges which has followed on this year's reductions in their price?

With our new and improved plant we are turning out huge numbers of Sorbo Sponges every day to keep pace with the growing numbers of customers who want Sorbo Sponges—the only sponges which soap improves.

All the year round, morning and evening, men, women and children need Sorbo Sponges. Everyone in your district is a potential customer for Sorbo Sponges; and every Sorbo you sell means a quick and generous profit—33½%—to you.

Send your order to-day.

Sorbo sponge

THE MOST ABSORBENT RUBBER SPONGE

Retail Prices : No. 1, 1/- ; No. 2, 1/9 ; No. 3, 2/6
 No. 4, 3/9. Bath Sizes : No. 4R 5/- ; No. 5, 7/6

Sorbo Rubber-Sponge Products, Ltd.

Sorbo Works, Woking, Surrey.

London Office - - - 24 Walbrook, E.C.4

OUR
SPONGES
 AGAIN
 Considerably Reduced
 in Price.

Competition Defied.

WRITE FOR SAMPLES AND PRICES
 OR CALL AND INSPECT OUR STOCK.

New Showrooms and Warehouses :
 25 FINSBURY ST., CHISWELL ST.,
 LONDON, E.C.2.

Telephone - - CLERKENWELL 5428.

The
Sponge Fishing & Importing Co., Ltd.
 (Société Anonyme pour la Pêche et l'Importation des Eponges)

Incorporated in Belgium.

Buying Branches at Sfax, Tripoli, Kalymnos-Symi, Hydra,
 Batabona, Nassau and Florida.

Selling Branches at Brussels, Paris, Barcelona and Hamburg.

No connection whatever with any other Firm.

DEAN'S

A1
"SWIMEESY" **BUOYS**

are a reliable swimming device that will bring you EXTRA SALES during the SUMMER MONTHS in all districts possessing bathing facilities. No awkward sizes to stock—no changing fashions to study.

Stock occupies little space and does not deteriorate. No waste. No packing costs. MADE IN TWO STYLES — Plain Tints (assorted), Butterfly Wing (full colours). Send your Trade Card for particulars.

DEAN'S RAGBOOK Co., Ltd., Elephant & Castle, London, S.E.1

G. B. KENT & SONS, LTD.

Are known the World over as
 the Largest Manufacturers of

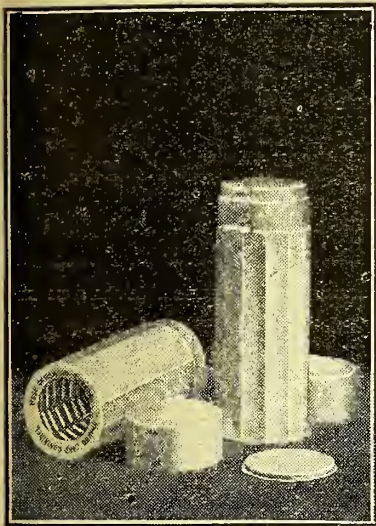
**BEST
 BRITISH
 BRUSHES**

Please write for full Particulars to—

75 Farringdon Road, E.C.1.

The "HOLDER-CASE."

(PATENT APPLIED FOR.)



Design Registered. No. 692595.

AT LAST!
A PERFECT HOLDER
FOR
SHAVING SOAP

Every man who shaves will want this
HANDSOME TOILET ARTICLE.

Made of Heavy Ivoryte. It is adjustable.

IN using the HOLDER CASE the Shaving stick is not removed from it but is extruded slightly, and as it is worn away it is pushed outward gradually, being held in place by a simple adjustable bottom, consisting of a special double disc engaging in notches on the wall of the case.

SELLS
AT
SIGHT

Price 2/6 each

Every Sale induces another.

Liberal Discount to the TRADE.

SOLE DISTRIBUTORS IN THE U.K. :

MAYREIS BROS. (Dept. C.) 3a Old Palace Place, RICHMOND

Specify when ordering :—

"ENGLISH PROPHYLACTIC"

"ADDIS in
the Blue Box"

WILL NOT COLLAPSE IN HOT
WATER

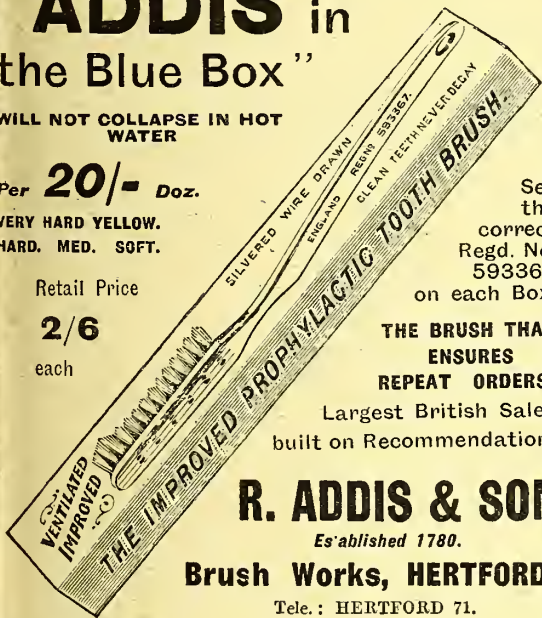
Per 20/- Doz.

VERY HARD YELLOW.
HARD. MED. SOFT.

Retail Price

2/6

each



See
the
correct
Regd. No.
593367
on each Box.

THE BRUSH THAT
ENSURES
REPEAT ORDERS.

Largest British Sales
built on Recommendation.

R. ADDIS & SON

Es'ablished 1780.

Brush Works, HERTFORD.

Tele.: HERTFORD 71.

OLDEST FIRM OF TOOTH BRUSH MANUFACTURERS
IN THE WORLD.

Sold by the following Wholesale Druggists :—

LONDON.

Amor, W. W., Son & Co.
Barclay & Sons, Ltd.
Butler & Crispe
Baiss Bros. & Co.
Britton, Malcolm & Waymark, Ltd.
Bourne, Johnson & Co., Ltd.
Geo. Curling, Wyman & Co.
Dakin Bros., Ltd.
Edwards, W., & Son
Ferber, Robt., Ltd.
Galen Manufacturing Co., Ltd. [Ltd.
Hewlett, C. J., & Son
Healey, Royle & Co.
Hay, J. B., & Co.
Higgins, G. & Co.
May, Roberts & Co. Ltd.
Newbery, F., & Sons Ltd.
Osborne, Garratt & Co., Ltd.
Reuter, R. J.
Rippling, J.
Sangers [Ltd.
Schulze, F., & Co., Ltd.
Solport Bros.
Sutton, W., & Co.
Taffs, H. F., & Co.

BIRMINGHAM.

Parton, Son & Co., Ltd.
Southall Bros. & Barclay

CARDIFF.

Newbery, F., & Sons, Ltd.

GLASGOW.

Burns, Petrie & Co.
Lorimer & Moyes, Ltd.
Munro, M'Laren & Sutherland.

HULL.

Sayers Silcox, Cuzner & Co., Ltd.

LIVERPOOL.

Ayrton, Saunders & Co., Ltd.

MANCHESTER.

Clunie & Co.
Chemists' Sundries, Ltd.
Harper, C. W.
Harrison, Chas., & Sons
Heath Bros.
Millner, R. M.
Place & Co.
Quilliam, J., & Co.
Woolley, Sons & Co. Ltd.

NEWCASTLE.

Hall Forster & Co. Ltd.

YOUR INTEREST ON OUR CAPITAL

'MY-WAY' BATH SALTZ

for

Tired and Aching Feet, Rheumatism, Corns, Hard Skin

attractively packed and perfumed in sizes costing **7d., 1/- & 1/9**
YOU 4/-, 7/- and 12/- doz. respectively (4 oz. 8 oz. 16 oz. approx.)

Here is our offer which is equal to simply putting money in YOUR pocket:
We will send you an assorted parcel, viz., 3½ doz. 7d., 1½ doz. 1/-, 1 doz. 1/9, with show card and window slips, carr. paid for **£1 18 6**, cash with order (YOUR PROFIT **£1 7 5**), and we will credit all unsold by Nov. 1st, 1923.

THIS IS SIMPLY GIVING YOU MONEY

but we do not worry because we sent out about 200 parcels last year on these terms and less than 3 were returned. *The rest sent repeats.*

For Right-out Purchase you may deduct 5%.

THE 'MY-WAY' COMPANY,
"SANGER'S" STOCK.

**135 HERTFORD ROAD,
ENFIELD WASH, Mddx.**

SPONGES

Were you satisfied with the last consignment of

SPONGES

which you purchased? Did they come up to Sample?

If not then get into touch with us before placing your next order.

We sell **FIRST GRADE GOODS ONLY—
IMPORTED DIRECT FROM THE
MEDITERRANEAN.**

It will pay you to send your enquiries to—

H. M. COHEN & Co., 32 Minorities, E.1

SPONGES

SPONGES

SPONGES

Half Your Stock Order Moved at Once

We believe the Palmolive Post-Card Scheme is the greatest introductory offer ever devised — greatest because it makes many new customers for a staple, profit-making line.

Read how the scheme works. Then take advantage of it by sending in your order.

ONLY 7 DAYS LEFT

The time limit necessarily placed on the Post-Card Scheme is almost up. If you have not already placed your order do so at once.

How the Scheme works

On your first order we will supply you with 36 ready-stamped post card coupons with every gross of Palmolive Soap bought. These post-card coupons are to be sent to your customers. All you have to do is to address and post them.

These coupons entitle the receiver to call at your shop for a **FREE FULL-SIZE TABLET OF PALMOLIVE SOAP** provided that at the same time he or she purchases one tablet from you. This means that your customer gets two tablets for the price of one.

Each of the post-cards supplied to you is stamped ready for posting and your name and address is printed on the back so that the coupon is only good at your own establishment.

The post-card coupons will certainly be brought

in to you in exchange for these extra **FREE** tablets. We will refund to you 7d. in cash for every coupon returned to you and sent on to us.

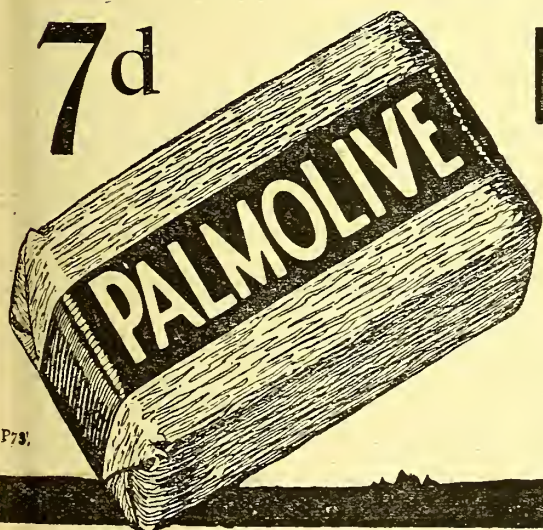
This means that you will get your full profit on both tablets supplied to each customer who brings in a coupon.

This means that, if all cards are returned to you, the scheme will immediately sell half your original order of Palmolive Soap.

At the same time it will increase your prestige with every customer who receives a coupon from you.

Note that this scheme applies only to your *initial order* and will not be repeated. Take advantage by ordering as much as you possibly can; it will pay you well.

Get a good start with Palmolive. It's a very paying line. Quality and advertising make it so.



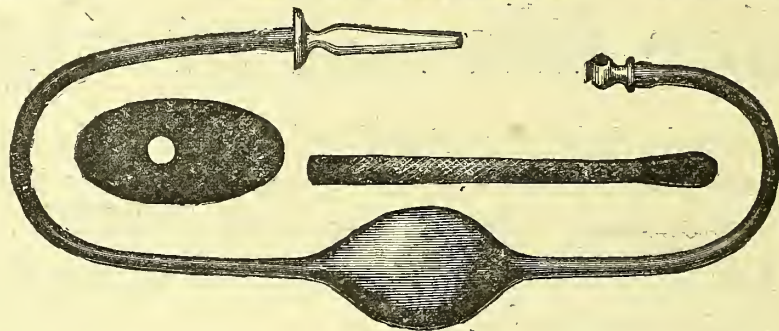
PALMOLIVE SOAP

The Palmolive Company (of England) Ltd.,
21-23, Eagle Street, High Holborn, W.C. 1.



CHEAP SEAMLESS ENEMA

21/- doz.



21/- doz.

No. 1252.

No. 1252. The "SAFFRON," black polished, complete in card box, per doz. 21/-. This Enema is thoroughly reliable and will command a ready sale if brought to the notice of the public.

CARRIAGE PAID ON ORDERS OF £3 AND UPWARDS.

A discount of 5 per cent. for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory. Write for New Price Lists of Druggists' Sundries, Toilet Requisites, Rubber Goods, Cut Sheet Rubber Appliances, etc.

BURGE, WARREN & RIDGLEY, LTD.

91 & 92 GREAT SAFFRON HILL, LONDON, E.C.1.

ZEAL'S REGISTERED

Clinical Thermometer

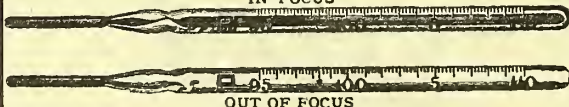
The REPELLO requires no shaking down

A 30-second pushed back in an instant.



**NEW IMPROVED
LENS FINDER**

The only Easy Reading Magnifying Clinical on the Market.
IN FOCUS



The square mark engraved on lens front locates the Mercury column immediately.

SPECIAL AWARD AND GOLD MEDAL, NEW ZEALAND, 1907
SILVER MEDAL, INDIA, 1909. SILVER MEDAL, LONDON, 1913.

All Clinical Thermometers are supplied N.P.L. Tested unless otherwise ordered.

G. H. Zeal, Ltd., 77 St. John Street, Clerkenwell, London, E.C. 1.

Established 1888.

Wholesale Manufacturers of Clinical Thermometers.
Contractors to H.M. Government.

Telegrams: "Zealdom, Smith, London." Tel. No.: Clerkenwell 5202.

NOW

IS THE TIME TO PLACE YOUR ORDER

FOR

BATHING CAPS SPONGE BAGS HOLDALLS

OUR LATEST PATTERNS AND
PRICES SENT ON APPLICATION

ARTHUR BERTON, Ltd.

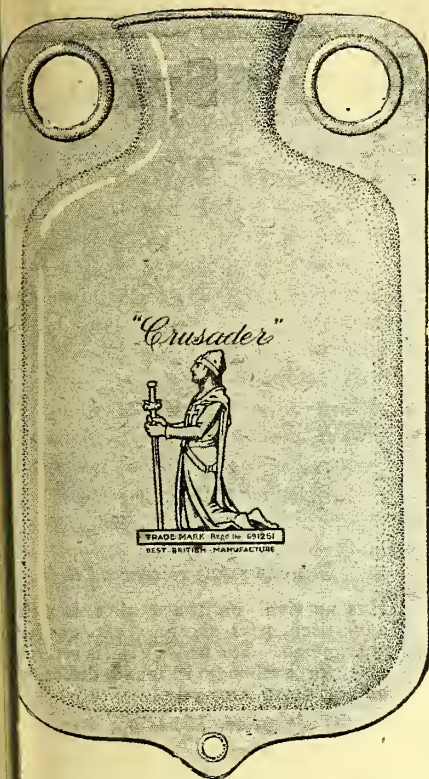
15-17 Worship Street, LONDON, E.C.2.

MANCHESTER and GLASGOW.

36 Chapel St., Victoria Bridge. 84 Miller Street.

Telegrams: "Aybelim, Finsquare, London."

Phones: Clerkenwell 1347, 1348, 1349 (Private Exchange).



The Hot Water Bottle
it pays to sell as well
as to buy———The

“Crusader”

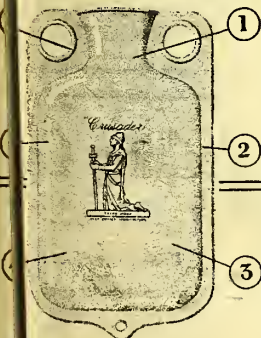
BEING in all respects the best hot water bottle yet produced, it pays to sell because it is bound to please your customers, as well as giving you an entirely satisfactory margin of profit.

Top us a line and we will send you a sample “Crusader”—which you can return or return as you desire. Then you will understand why we are so confident recommending it to your attention. All preliminary advertising at the worst season of the year has already demonstrated beyond question the ease with which a demand can be created for it.

It is sold at a fixed price—6/11—there can be no price cutting. There is only one size, 15"×9", so your stock can be turned over quickly. Guaranteed for 12 months. Write us now—while it is in your mind—and examine this new and vastly improved Hot Water Bottle before you make any decision concerning next Season.

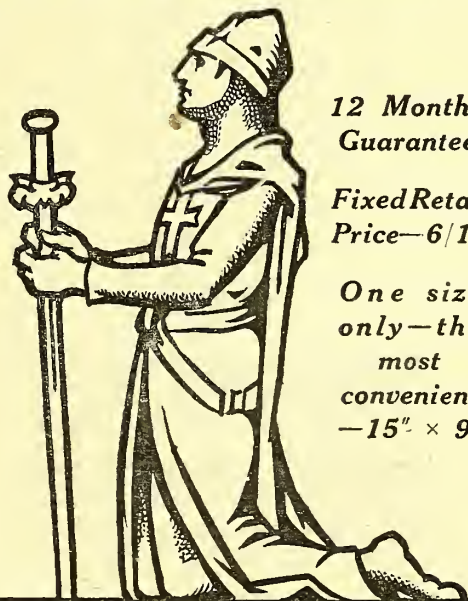
**The Crusader Rubber
Company Limited,**
62 London Wall, London, E.C.

*Write
that
card
NOW!*



1. Neck is part of body.
2. Only one seam and that made under hydraulic pressure.
3. Light weight
4. Egyptian cotton fabric reinforced.
5. Cushion-shaped and cushion-soft.
6. Built-in handles.

Awarded the Certificate
of the Institute of
Hygiene.



*12 Months'
Guarantee.*

*Fixed Retail
Price—6/11*

*One size
only—the
most
convenient
—15" × 9"*

TRADE MARK Regd. No. 691251

No. 5. BEST BRITISH MANUFACTURE

A SATISFIED CUSTOMER IS THE CHEMIST'S BEST ADVERTISEMENT

The Marvel Whirling Spray Syringe



Gold Medal Awarded, Paris, 1902,
by the Société d'Hygiène de France

as the latest and best improvement in Vaginal Syringes. Particular attention is called to the fact that by reason of its peculiar construction the Marvel Syringe dilates and flushes the vagina with a volume of whirling spray, which smooths out the folds and permits the injection to come into contact with and cleansing the entire surface.

Fully Protected by Patents.



IT IS A MARVEL



You can safely recommend it.

Has no rival on the market, is well advertised, pays a good profit, quality guaranteed. The MARVEL is returnable for exchange if found defective and reported promptly.

Trade price, 125/- per doz.

Retail price, 15/- each.

FASSETT & JOHNSON, Ltd.
86 Clerkenwell Rd., London, E.C.1.



NORVIC Regd.
CRÊPE BINDERS

For all cases where support, elasticity and durability are needed. Rubberless and washable. All widths up to 11 inches.

Wholesale only.

Sole Mfrs. **GROUT & Co., Ltd., Gt. Yarmouth.**
London Agent **T. S. Eastaway, 35 Wood Street, E.C.**

WILSON (RUBBER) GLOVES

(Advertised in "The Lancet.")

SURGICAL, OBSTETRICAL, AUTOPSY, ACID, ELECTRICAL (10,000 volts), HOUSEHOLD, FINGER COTS.

SUPPLIES BY RETURN from STOCK

Enquiries (Wholesale and Export) to:—

The only accredited Agent
in Great Britain for
THE WILSON RUBBER CO.,
CANTON, O., U.S.A.
The largest exclusive manufacturers of rubber gloves in the world

R. S. BLAKER,
10 CANUTE RD.,
SOUTHAMPTON.



Bathing Cap

All Rubber—Bright Colour
From 4/6 dozen.

Deliveries from Stock.

Samples on Approval.

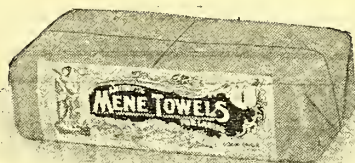
ALL KINDS OF SURGICAL
RUBBER GOODS: Enema
Pessaries (Watch Spring), &c.

JAMES TOMPKINS, Ld.
THE RUBBER HOUSE,
386 CITY ROAD, LONDON, E.
ESTABLISHED 46 YEARS.



MENE SANITARY TOWELS

THE MENE TOWEL IS THE MOST COMFORTABLE TOWEL YET INTRODUCED AND IS ANTISEPTIC



CURRENT PRICES

	SIZE—	No. 0	No. 1	No. 2	No. 3	No. 4
TRADE	- -	7/10 $\frac{1}{2}$	9/8	13/6	16/10	19/1 per gross
To be retailed	-	10 $\frac{1}{2}$ d.	1/1	1/6	1/10 $\frac{1}{2}$	2/1 $\frac{1}{2}$ per dozen

These selling prices have been adjusted to return a profit, ON ALL SIZES, of 33 $\frac{1}{3}$ % on cost.

To assist our customers in selling the MENE we will furnish supply of SAMPLES for free distribution and also SHOWCARDS for display.

Obtainable from Wholesale Druggists or direct from Manufacturers :—

ROBINSON & SONS, LTD.

CHESTERFIELD

And 168 OLD STREET, LONDON, E.C.1.

THE "MATER" CLINICAL

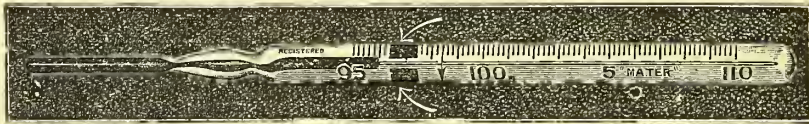
MAGNIFYING FRONT. NATIONAL PHYSICAL LABORATORY GUARANTEE.
EASY TO READ. EASY TO SHAKE DOWN.

This series of **Clinical** Thermometer is on the

P. A. T. A. LIST

AN ADEQUATE MARGIN OF PROFIT BEING GUARANTEED

REGISTERED No. 553038



PRICES OF THE "MATER" CLINICAL IN METAL CASES:—

Retail ... 2 min., 4/6; 1 min., 5/6; ½ min., 7/- each.

Wholesale ... 27/-; 33/-; 42/- per doz.

PERKEN, SON & CO., Ltd., 94 HATTON GARDEN,
LONDON, E.C. 1.

Established 1852.

Telephone : 724 Holborn.

Contractors to H.M. Government.

Telegrams : "Optimus, Smith, London."

Write for Prices of every description of **CLINICAL** and **OTHER THERMOMETERS**

THE "JARASO" Personal Weighing Machine

BRITISH PATENT No. 23493/1910

*Small and Compact. Weighs from 1 lb. to 20 stone.
Suitable for Bathroom, Bedroom, Nursery, etc.
The weight is reflected automatically in the mirror.*

SIZE 11 × 7½ × 8 inches.

WEIGHT 19 lbs.

RETAIL PRICE REDUCED TO

45/- each

Liberal terms to Wholesale Houses,
Shippers and Export Merchants for
re-sale in Great Britain, Ireland and
British Colonies only.

All particulars from:

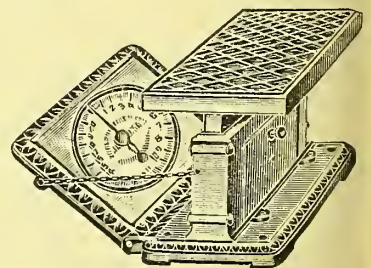
ALBERT C. SHOPPEE, LTD.

(SOLE LICENSEES)

Belmont Street, Chalk Farm, London, N.W.1.



For Men, Women, or Children.



JAPANNED WHITE.

ZORBO Reg. Brand

ABSORBENT COTTON WOOL

Surgeon's Superfine Quality

THIS Surgical Dressing has been introduced with a view to meeting the demand for a really high-class cotton wool of British Manufacture.

It is made only from long staple cotton, is highly absorbent, and free from all impurities, and through every stage of manufacture the greatest care has been taken, and quality has been the first and only consideration.

To ensure the retailer a reasonable profit, and to protect his customers from the substitution of inferior qualities, "ZORBO" Cotton Wool has been placed on the P.A.T.A. List, so that our friends may have every confidence in pushing this All British Line.

SAMPLES ON APPLICATION

P.A.T.A. PRICES

		1-lb.	8-oz.	4-oz.	2-oz.	1 oz.
P.A.T.A. Public Price.	PACKETS ...	4/6	2/6	1/4	9d.	6d. each.
Wholesale Price to Retailers	... ..	35/-	18/2	9/4	5/-	2/10 doz.
P.A.T.A. Public Price.	CARTONS ...	5/-	2/9	1/8	1/-	7½d. each.
Wholesale Price to Retailers	... ..	37/-	20/-	10/9	5/10	3½ doz.
P.A.T.A. Public Price.	SEALED TINS,					
	STERILIZED ...	5/6	3/3	2/-	1/6	— each.
Wholesale Price to Retailers	... ..	42/-	22/6	12/6	8/-	— doz.
STERILIZED IN SEALED GLASS BOTTLES, 2-oz. ONLY.						
P.A.T.A. Public Price	... ..			1/9	each.	
Wholesale Price to Retailers	... ..			10/-	per doz.	

SOLE MANUFACTURERS:

ROBERT BAILEY & SON, LTD.
Marriott Street Mills, Stockport.

Order through your usual wholesaler.

Important Announcement to the Trade.

Cash's VANGE WATER

(THE ORIGINAL)

The Water that has been favourably noticed by "The Lancet."

FROM MAY 1st THE PRICES OF CASH'S VANGE WATER will be:—

WHOLESALE 24/- per dozen, carriage paid.
(Subject to 2½% Cash with Order.)

RETAIL 30/- per dozen bottles.
(Not to be retailed under this fixed price.)

Special Note: A National Advertising Campaign is now in progress and will have the effect of speedy increase in demand.

More customers will be asking for CASH'S VANGE WATER. **Order your supply now.**

Sole Distributing Agents (Essex excluded):

UNIVERSAL DISTRIBUTING AGENCY, LTD.

(Formerly the GENERAL MANUFACTURERS' AGENCY, 6/7 Redcross Street, E.C.)

16 GREAT JAMES STREET, BEDFORD ROW, LONDON, W.C.1.

Hooker's MALTED MILK

Preferred for its Superior Flavour

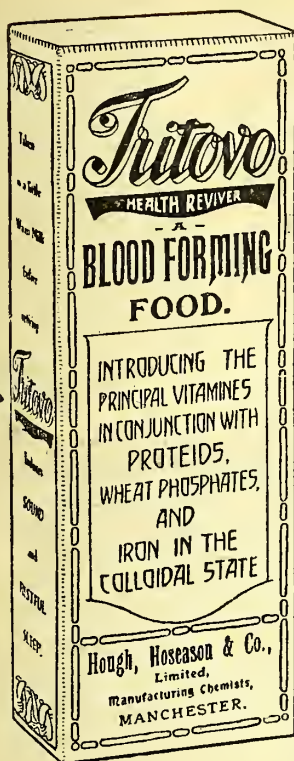
In HOOKER'S MALTED MILK, proven dietetic superiority is allied with the popular appeal of an appetisingly delicious flavour, which demonstrates, as nothing else could do, the matchless quality of its all-British ingredients.

To stock and recommend HOOKER'S preparation exclusively, is to multiply your sales of Malted Milk, with a generous accretion of profit to yourself, and increased satisfaction to your customers.

"Lancet" Analysis and Sales Promotion material Gratis.

THEW HOOKER & GILBEY, LTD.,
Buckingham.

H.T.13a.



Rx

Tritovo.

H. H. & Co.

TRITOVO

A blood-forming, health-giving TONIC FOOD. Its continued use is associated with a feeling of mental and physical fitness derived only from a system whose chief organs are working in perfect harmony.

The enthusiasm with which this preparation has been taken up by the Medical Profession ensures its success as a selling line of Real Merit.

Packed in 2 Sizes, 1/9 and 3/-, showing a good margin of Profit.

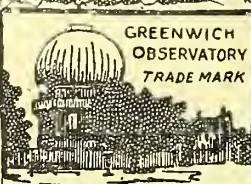
HOUGH, HOSEASON & CO., Ltd.

Manufacturing Chemists,

Sun Buildings

MANCHESTER.

GO



CONCENTRATED LEMONADE

2d. Size .. 16/- per gross.
 3½d. Size .. 28/- per gross.
 6½d. Size .. 51/- per gross.
 1/- Tins .. 8/- per doz.

Bonus with Window Display Parcel's—

12×6½d. free with £3 Parcel.
 30×6½d. " £6 "

Parcels may be assorted as required.

100 Free Samples with a £3 order,
 OR

200 Free Samples with a £6 order.

A suggested £3 Parcel
 is as follows:—

	£	s.	d.
6 doz. 2d. G.O. Lemonade	8	0	
12 " 3½d. "	1	8	0
4 " 6½d. "	17	0	
1 " 1/- tins "	8	0	
(less 2½% for c.w.o.)	£3	1	0

1 doz. 6½d. free in payment for display.

Sells for **£4 18s. 6d.**

YOUR PROFIT £1 19s. 0d.

Nearly 40% on turnover.

Order NOW to avoid the
 eleventh-hour rush.

**THE
GREENWICH LEMONADE
COMPANY**

(J. MILNER, M.P.S.)

**11 JOHN PENN STREET,
LONDON, S.E.13**

Phone :
Greenwich
947



**"BEST
for
MOTHER
and
BABY"**



**"DORSELLA"
MILK FOOD**

Equals Grade "A" Milk
 in decorated Air Tight Tins.

16 oz. net. 10 oz. net. 5 oz. net.
 2 oz. Samples free on receipt of 3d. postage and packing.

Manufactured by

PRIDEAUX'S FOOD ETC. COMPANY, LIMITED,

Pioneers of the Dried Milk Industry. Eight
 Creameries in Dorset, Somerset and Wilts.

London Office : 16 Southwark Street, S.E.1.

Send for Trade Terms and full particulars to :

PRIDEAUX'S FOOD etc. Co. Ltd.
 MOTCOMBE, DORSET.

LOSALL'S SALT



Sells freely and readily

**PROFIT 50%
ON OUTLAY**

An infallible remedy for

**GOUT,
RHEUMATISM,
ECZEMA
and SKIN
AFFECTIONS.**

P.A.T.A.

4 oz. tins 1/-, 8/- doz. net.
 8 oz. " 1/9, 14/- " "
 Bottles 2/6, 20/- " "

Attractive advertising matter
 supplied on application.

SOLD EVERYWHERE.

Manufactured by

**LOFTHOUSE & SALTMER LTD
HULL**



A FEW SPECIMENS

— OF —

Labels for Health Salt

WRITE US FOR FULL RANGE OF LABELS, PRICES, etc. etc.

BLYTON, ASTLEY & CO.

Lower Broughton
MANCHESTER



*Exclusively
a line for
Pharmacists.*

The sales policy of Trufood is a simple one. Propaganda, whether to the medical profession or to the general public, indicates that the food is

Obtainable from all Pharmacists
in 10 oz., 20 oz. & 36 oz. tins
at 2s., 4s. & 7s.

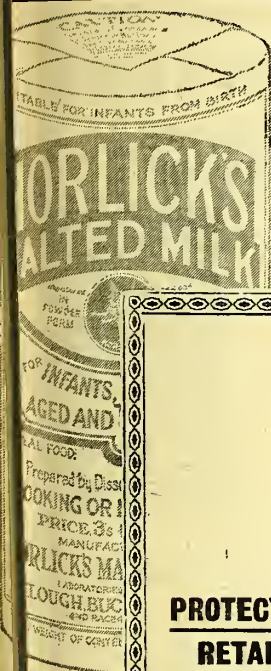
There is no other channel of supply open to the purchaser.

This is our settled method of trading. Advertising to the public is continuous and is creating goodwill. Propaganda, on strictly ethical lines, to the medical and nursing professions, is stimulating demand. We confidently appeal to you to support our efforts.

THE SUPREME MILK FOOD FOR INFANTS

TRUFOOD

TRUFOOD LTD., THE CREAMERIES, WRENBURY, CHESHIRE
London Office: LEVER HOUSE, BLACKFRIARS, E.C.4



PRICE LIST

May, 1923

PROTECTED RETAIL PRICE		Tablet Form only	Both Powder and Tablet Forms	Powder Form only
		Per Bottle	Per Dozen	Per Dozen
		7½d. 1/3	2/- 3/6	8/6 15/-
		7/6 15/-	24/- 42/-	102/- 180/-

Wholesale Price - - less 20%

In £5 lots - less 20% & 5% In £10 lots - less 20% & 10%

Quantities must be figured nett after deducting all discounts.

We do not supply direct, or pay carriage on less than £10 parcels, and orders may include all sizes, but should be for full dozens of any sizes, except the 8/6 and 15/-, which may be included in less than dozens.

We reserve the right to supply in the fewest packages possible, but will endeavour always to meet the views of buyers in this direction.

Terms: 30 days nett. 1% for cash within 7 days from date of Invoice.

Made in England by

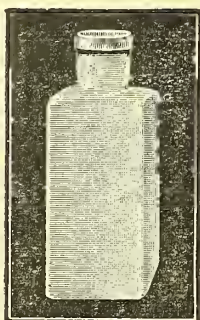
HORLICK'S MALTED MILK COMPANY,
Slough, Bucks.

*Attractive advertising matter for display
and distribution sent free and carriage
paid on application.*

**HORLICK'S
MALTED MILK**
The Original

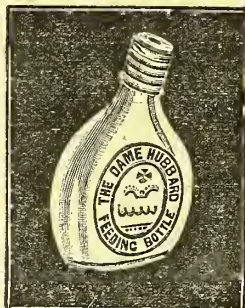
A TIMELY SUGGESTION

SEE TO YOUR SUMMER GLASSWARE NOW, WE
HAVE STOCKS, OR YOU CAN ORDER FORWARD.



Cheltenham.

LIMES.
KALIS.
BRILLS.
TABLET
BOTTLES.
POMADES.
PANELS.



SCREW NECK FEEDER.
Dame Hubbard.

MEDICALS
VIALS.
TOBINS.
CANNONS.
TUBES.

&c.



Kali.

CHEMICAL & LABORATORY GLASSWARE.

WRITE US FOR PARTICULARS OF OUR GLASS EGG PRESERVING JARS.

JULES LANG & SON

CHARLTON WORKS, CHARLTON PLACE, ISLINGTON, LONDON, N.1.

Telephones: North 2770-2 (3 lines).

Telegrams: "Assorted, Phone, London."

Codes: A B C, 5th Edition, Scott's 10th Edition (1906). Bentley's Complete Phrase Code.



GLASS BOTTLES

Medical Flats, Panels, Vials, Poisons.

Kalis, Limes and Feeders.

Wholesale and Export.

Samples and Prices on application.



FARROW & CO., 87 Borough High St., LONDON, S.E. 1.

BOTTLES

FOR ALL KINDS, WRITE TO— **FREDK. YOULDON** (Formerly Proprietor of E. YOULDON, Established 1840)
Phone: London Wall 3529. Portland House, 73 Basinghall St., London, E.C.2
Telegrams: "Youldon, Stock, London."

Regd. Trade



Mark, No. 26866.

BEST FEEDER



Made in Neutral Glass of High Thermal Endurance, with CHEMIST'S NAME AND ADDRESS and the graduations in

SANDBLASTED LABEL

of excellent design and execution.

No particles of sour milk or impurity can lodge inside the Feeder as the interior is absolutely smooth.



Best

BEST
FOR THE BABY

who has it, because
it is the most
hygienic.

BEST
FOR THE MOTHER

who buys it, because
it is the most easily
cleansed and is not
liable to crack with
hot liquids.

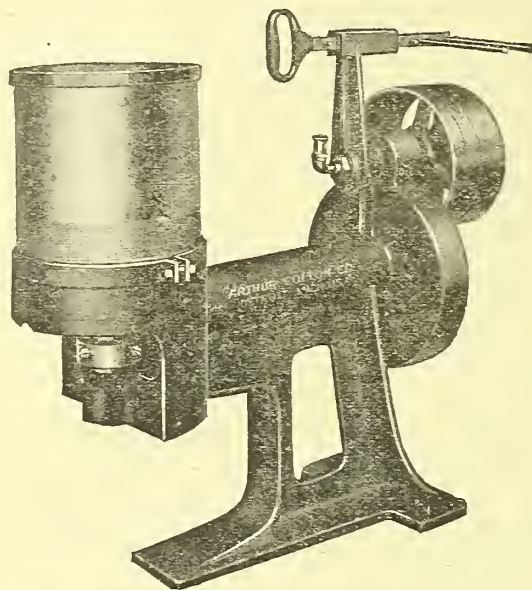
BEST
FOR THE CHEMIST

who sells it, because
it bears his name and
is a constant advertiser
of his business in the
family circle.

In one gross lots and upwards through your Druggists' Sundriesman.

WOOD BROTHERS GLASS COMPANY, LTD., BARNSELY, ENGLAND:

Established 1828.



N^o. 3 COLTON ROTARY WET GRANULATOR.

THIS is a new design machine that is capable of producing an unusually firm quality of granulation.

The design of the machine has been carefully studied with a view to simplicity in cleaning, and for this purpose it is *only necessary* to *loosen the clamping bolt* at the base of Separator and *one pin in Spreader Head* and all movable parts are available for cleaning.

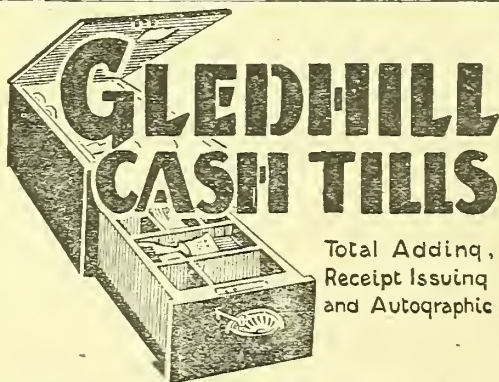
Capacity: 200 lbs. Sugar Granulation per hour.
Floor Space: 12 by 28 inches.

WRITE FOR PRICE AND FULL PARTICULARS TO

SOLE
BRITISH
AGENTS:

JOHN J. GRIFFIN & SONS, LTD.

Kemble Street, Kingsway, LONDON.



Total Adding,
Receipt Issuing
and Autographic

Cash Tills of Quality

Made by the oldest firm in the trade.

Have you ever considered the number of times your Cash Drawer is opened per annum?

A Gledhill Till is made to stand this constant use for a lifetime.

You cannot expect the same results from a jerry-built article.

You must have a "GLEDHILL" for satisfaction.

Full particulars from

G. H. GLEDHILL & SONS, LTD.
16 Trinity Works, Halifax.

Prices from £3 10s 0d.



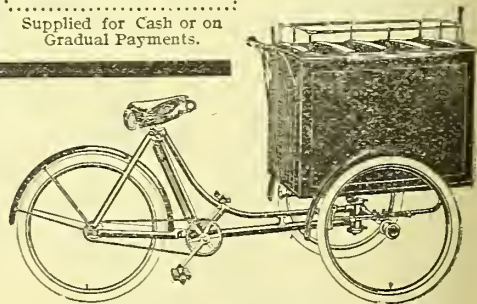
Carrier Tricycles

DESIGNED to carry bulky articles. Easy to propel and handle in traffic. Write for full catalogue of Carrier Cycles and Tricycles. Our local agent will call on you and give full information.

SERVICE
Our agents give full repair service at all times.

Supplied for Cash or on Gradual Payments.

Price £30 Nett Cash.



Write for full Catalogue of all James Models.

THE JAMES CYCLE CO. Ltd

Greet - - - - - Birmingham

London Showroom - - - - - 22 Holborn Viaduct, E.C.

THE ABBE REFRACTOMETER

For maintaining uniform strength in pharmaceutical products.
Much quicker than taking the dried weights or specific gravities.

Made by
ADAM HILGER LTD.

(Direct reading from 1.3000 to 1.7000)

ADVANTAGES

Accurate to 0.0001.
New dispersion scale, one reference table only being required.
Mechanical parts standardised, and replaceable from stock.
Optical parts standardised by interferometry, and replaceable from stock.
Scale by automatic dividing apparatus designed and made by ADAM HILGER LTD.

6. Optical system ample in size, and of perfect definition.
7. Mechanical construction substantial.
8. Hinges of prism boxes form a solid integral part of the prism boxes themselves.
9. Water jackets have wide bore nozzles for water circulation.
10. To introduce the drop of liquid and take a reading occupies one minute only.
11. Thickness of liquid a standardised optimum.

PRICE, including well made mahogany case, bottle of standard oil, 23 page illustrated book of instructions, and two volumes of Tables of Refractive Indices (Vol. I., Essential Oils, 145 pp.; Vol. II., Oils, Fats and Waxes, 295 pp.) - **£50**

DELIVERY FROM STOCK

You are invited to see these and other instruments in our Showroom and Laboratories at
5a CAMDEN ROAD, LONDON, N.W.1 (entrance 24 Rochester Place—adjoining)

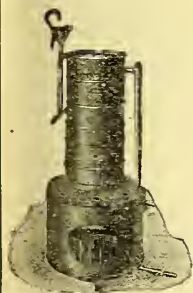
Laboratory Fittings and Equipment.

SPECIALITIES: Benches, Fume Cupboards, Stills, Drying Ovens, Gas, Water and Steam Fittings. Electrically Heated Apparatus.

Quotations submitted for the complete equipment and installation of apparatus and plant for Educational Research, and Commercial Laboratories, *Lists Free.*

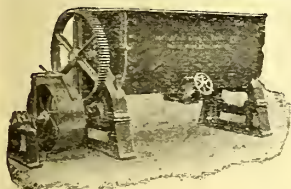
Stills, as illustrated, for gas and steam heating, made in sizes from 1 to 12 galls. per hour. Prices on application.

BROWN & SON,
ALEMBIC WORKS,
WEDMORE STREET, HOLLOWAY,
LONDON, N. 19.



"ATLAS" PATENT MIXERS & SIFTERS

Combined or Separate Machines.



Absolutely up-to-date in every detail, strong, and most reliable machines on the market. Various sizes.

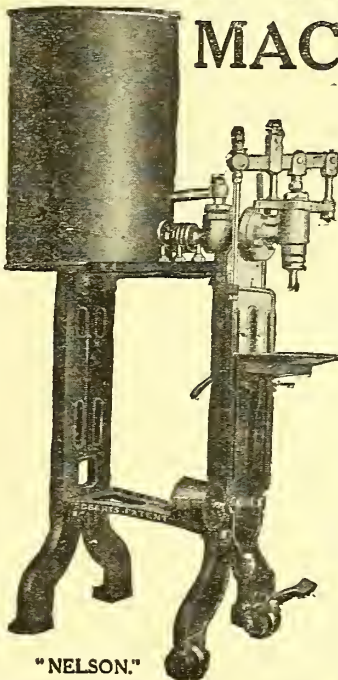
BALL MILLS

HIND & LUND, LTD.

ATLAS WORKS, PRESTON.
Telegrams: "Atlas Preston."

(3)

ROBERTS' ORIGINAL PATENT BOTTLE-FILLING MACHINES



Don't waste money on imitations, buy Roberts' Machines which actually Created the Records for

CLEANLINESS SIMPLICITY

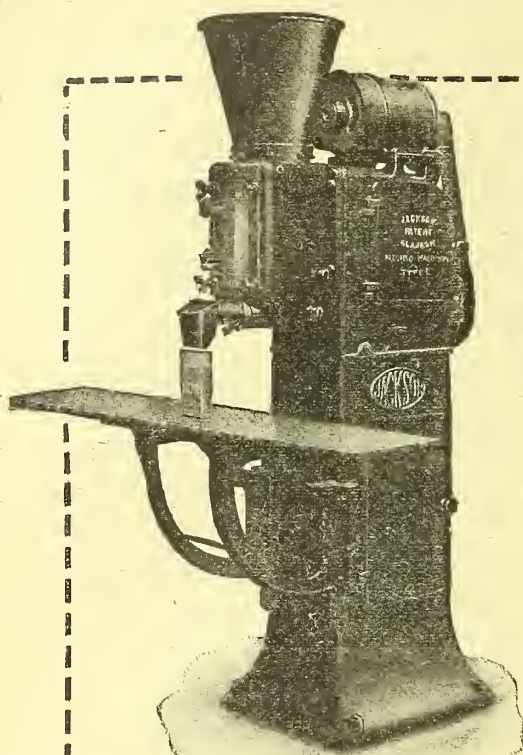
and Rapidity in
Bottle Filling.

NOTE the Address:
**ROBERTS' PATENT
FILLING MACHINE CO.**
33 ROUND CROFT ST.,
BOLTON.

Our latest patent "Alpha," price £14, will fill 10 gross bottles per hour.

Write for Particulars.
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"NELSON."



JACKSON

THE SPECIALISTS IN
**Weighing & Measuring
 Filling Machines**
 MACHINES FOR EVERY PURPOSE

The Illustration shows
Type 'E' Measuring and Filling Machine
 THE SPEEDIEST MACHINE ON THE MARKET.

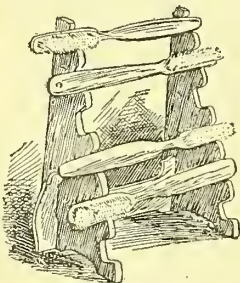
Using two nozzles, this machine
 can fill with one operator 3,900
 × ½-lb. tins or cartons per hour.

Write for full particulars.

ALSO MAKERS of the WELL-KNOWN JACKSON PATENT GRINDERS

J. G. JACKSON, Limited,
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Double Your Sales of TOOTH BRUSHES



The Latest & Smartest
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Send for one :
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Money returned if not satisfied.

**SAMWAYS MANUFACTURING
 CO., LTD.**

256 Broad St., Birmingham.

"OWTAZIN"
 Regd.
 OUT - AS - IN

VACUUM FLASKS



GUARANTEED DOUBLE TESTED.

Carriage Paid.

Free Cases.

NINE PATTERNS IN STOCK.
 VARIOUS COLOURS.
 YOUR INQUIRIES SOLICITED.

OWTAZIN CO. Phone :
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50-51 FORE STREET, LONDON, E.C.2.

SALVO PETROLIA

The Perfection of Petroleum Jelly

MANUFACTURED SOLELY BY

THE DEE OIL COMPANY, Ltd.

D 23/24, EXCHANGE BLDGS., LIVERPOOL.

Telephone : Central 3859. Telegrams : "Cestrian: Liverpool."

Packed in barrels, kegs and smaller
 packages according to requirements.

Other Grades

PETROLEUM JELLIES, WHITE BASES, ETC.

Samples and prices on application.

"OLEUM DEELINÆ," a certain cure for Eczema.

"TAPON"

(Regd.)

Tie up your Parcels with Advertising Tying
 Tape. Pleases both Eye and Pocket and gives
 Distinction to every Parcel sent out.

Various Colours and Widths, Printed or Plain.

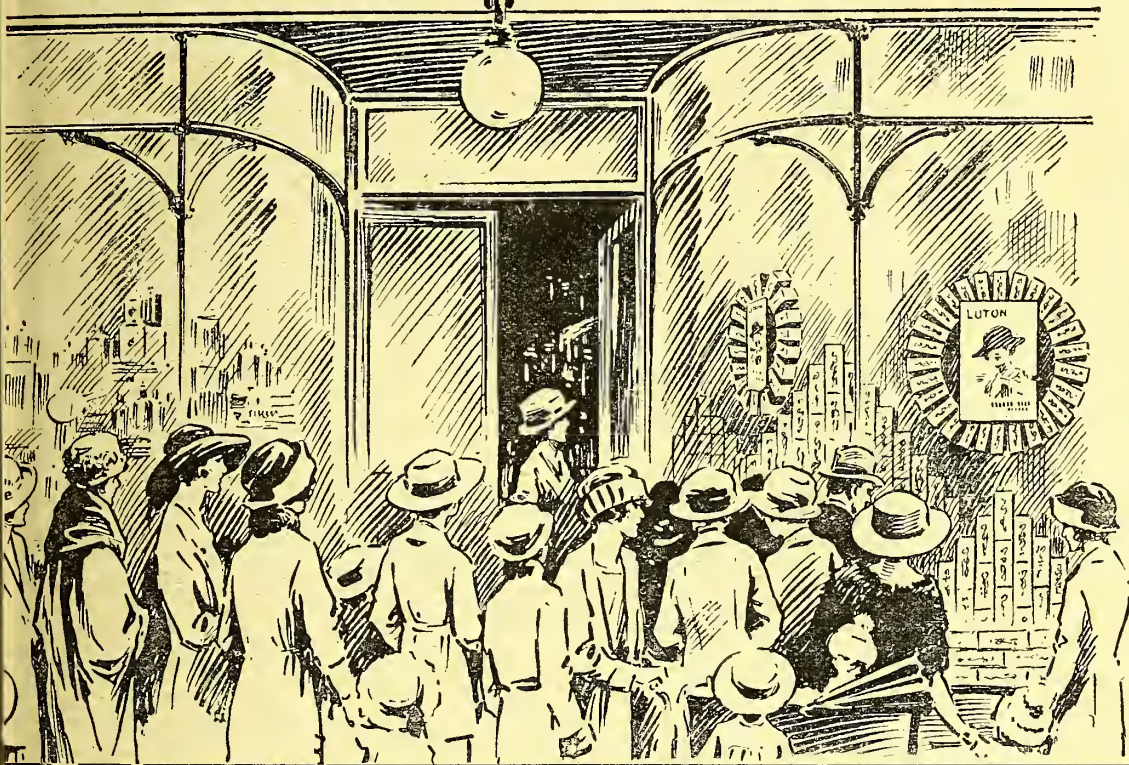
Write for particulars, when Prices
 and Patterns will be forwarded.

S. D. SIMOND & CO., LTD.

10 Monument Street - - E.C.3

Tel. : Avenue 6378. Telegrams : "Duncasim London."

BINSON M.P.S. CHEMIST



WE CREATE THE DEMAND —THE REST IS YOUR BUSINESS

An enormous demand is being created for "Luton" Straw Hat Dyes through the medium of an extensive advertising campaign in the leading periodicals and newspapers of the country. Customers will come to your establishment—numbers of them—asking for "Luton" Straw Hat Dyes—All British. Are you ready to supply this demand?

'LUTON' Straw Hat Dyes

SUPPLIED IN DULL
OR GLOSSY SERIES

"ENTIRELY BRITISH—BRITISH ENTERPRISE—BRITISH LABOUR—BRITISH CAPITAL"

satisfy even the most critical of the fair sex because they do all that is claimed for them and in a thoroughly efficient manner. If you make a "first sale"—and that should be easy with the help of our publicity—other sales are sure to follow from the same customer and through recommendations.

We will give you a generous supply of "Personal Sale Helps" in the form of Showcards, Literature, etc.

Write now for trade terms, patterns and full particulars.

All cases and containers free.

A special non-inflammable series is supplied for export.

WHITAKER & CO., Luton Dye Works, KENDAL

Telegrams: "DULLETTE KENDAL." Telephone: 214
LONDON OFFICE & SHOWROOMS: 61 & 62 CRAVEN HOUSE, KINGSWAY, W.C. 2.
Established 1878. Telephones: GERRARD 1774

"AURORAL" COLD WATER DYES

Another Whitaker product which is in great demand. It is the finest cold water dye in the world for dyeing delicate and costly fabrics. Good results always obtained.

"LUTON" FABRIC DYES

A splendid hot water dye for all materials, easy to use, perfect results assured; 24 Beautiful Colours.

MACHINERY for the MANUFACTURE OF CONTAINERS

VICKERS LIMITED are specially engaged at their Erith Works, Kent, in the design and manufacture of the most up-to-date plant for making all kinds of pilferproof shipping containers.

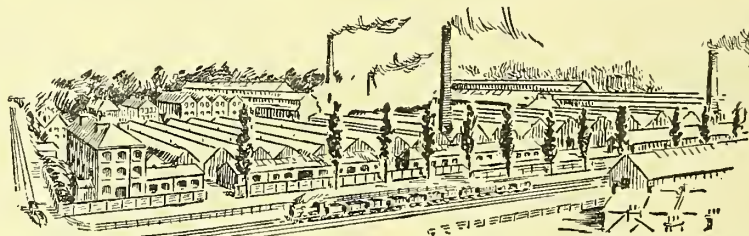
This form of container is lighter and stronger than a wood case—also more convenient as it can be stored in the flat and made up as required. It will also be found to be cheaper. Vickers Limited are in the position to give free advice as to plant and **CAN NOW SUPPLY THE MACHINERY.**

ERITH.

Department No. 75

KENT.

Telephone:
ERITH 68.



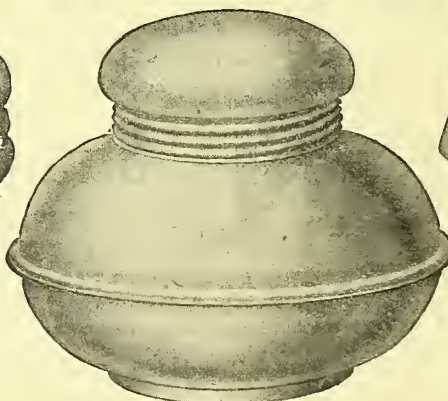
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CONTRACTORS TO H.M. GOVERNMENT.

ALUMINIUM CONTAINERS & FITTINGS



DENTIFRICE BOXES,
SCREW CAPS, ETC.



SHAVING STICK
CASES, TUBE CLIPS, etc.

PRODUCED FOR
MANUFACTURERS OF TOILET & SIMILAR PREPARATIONS
BY

NAPPER & DAVENPORT

ST. GEORGES PLACE, BIRMINGHAM.

Telephone:
Central 797/8 (2 lines).

Telegrams:
"Nappada, B'ham."



WHOLESALE ONLY
ERNEST TAYLOR LIMITED
 BREEZE LANE WORKS,
 WALTON, LIVERPOOL

CUFF'S FLY OIL

For Maggots in Sheep.

The cure for this troublesome complaint that has stood the test of nearly a hundred years.

Write for lowest carriage paid terms and Window Show allowance.

J. H. CUFF & SONS, *Wholesale Chemists and Druggists,*
 (Harcombe Cuff Ltd.)
 453 Caledonian Road - - London, N.7.

14th SEASON.

"MILNER" CLEANER

.. FOR ..

WHITE STRAW HATS

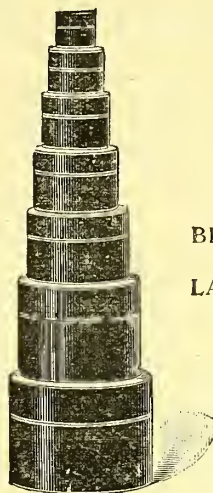
Popular Price, 3d.

Carriage Paid Parcels: 6 dozen, 10/-; 12 dozen, 19/-
 13 to dozen for Cash with order.

DISCOUNT: 2½% on 20/- orders; 5% on £5; 7½% on £10.

MILNER'S CHEMICAL CO., Liverpool.

Stocked by most Wholesale Houses.



ALL
 BRITISH
 MADE

BY
 BRITISH
 LABOUR.

MENTION

ROBINSONS' MAKE

WHEN ORDERING FROM
 YOUR WHOLESALE HOUSE
 YOUR NEXT SUPPLY OF

PILL BOXES

SUPPORT HOME INDUSTRIES.

ROBINSON & SONS, LTD.

BOXMAKERS TO THE
 CHEMIST TRADE

CHESTERFIELD.

Francis F. Fox & Co.

Oil Merchants, BRISTOL

and Birmingham

solicit your enquiries for

WATER GLASS

in 1, 2, 4 and 7 lb. Tins and Casks,

and also for

GRANULATED SULPHATE OF COPPER ⁹⁸/₉₉%

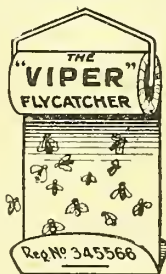
in 1 cwt. Bags.

PRICES ON APPLICATION.

Make More Money

and ensure satisfaction to your customers by selling VIPER and FLYSAC Flycatchers. They pay best and sell best.

THE
"VIPER"
Reg. Trade Mark



In three widths:
2 in., 3 in. & 4 in.

THE
"FLYSAC"
Reg. Trade Mark



The daintiest Flycatcher
on the market.

Write for samples and prices:

Sole Makers **KAY BROTHERS Ltd., STOCKPORT**



"Every Customer Quite Satisfied with 'Rodine'"

Mr. A. S. Russell, Chemist, Greenock, writes: "April 13th, 1923. For some time back I have stocked no other Rat Poison save 'Rodine,' and I find that every customer who uses it is quite satisfied with results. I have used it myself also and can testify to its efficacy."

"I Stock No Other Rat Poison"

Rodine is extensively advertised and price protected. It is the quick selling side-line. It yields nearly 100% protected profit.

Get it direct from the Sole Maker and Proprietor—
T. HARLEY, Manufacturing Chemist, PERTH, Scotland

**SHERLEY'S
DOG MEDICINES
INSECT POWDER
SHAMPOO, and
LACTOL
(P.A.T.A.)**



These preparations command a ready sale, and are by far the largest advertised of any on the market. They are protected at prices that leave an excellent margin of profit for the retailer, and the terms on which they are supplied preclude any possibility of loss.

We have an excellent range of literature and show cards, and do all in our power to assist chemists by referring mail customers to them.

Write for Price List and Terms.

A. F. SHERLEY & CO., LTD.
18 MARSHALSEA ROAD, LONDON, S.E.1.
Tel. No.: Hop 1897. Telegrams: "Sherleydom, London."

To CHEMISTS and DRUG STORES, IT PAYS to sell
FARMER'S "BAITED"
PHOSPHOR PASTE
made from an improved formula. It is the BEST RAT and MOUSE POISON
IN THE WORLD.
Jars 4d., 7d., and 1/3. KINDLY ORDER from SUNDRY HOUSES.
ONE USER recommends to another.
Export Agents: **AYRTON SAUNDERS & CO., LTD.**,
34 Manover Street, Liverpool.
Manufacturers: **F. FARMER & CO., HOMERTON, LONDON.**

Kills Rats

WHY MISS THESE ORDERS?

G.C. writes:—"I shall be so much obliged if you will kindly send 6 tins of "RAT-STICKER" to the above address. I have tried in vain in the towns round this village and cannot get it."

C.W. writes:—"Enclosed you will find a P.O. for a tin of "RATSTICKER." I have tried at the chemists and could not get it."

RATSTICKER

TRADE  MARK.

HUNDREDS OF CHEMISTS ALL OVER THE COUNTRY ARE SELLING IT. SEND A POST-CARD FOR PARTICULARS OF OUR SPECIAL OFFER.

100 per cent. Profit on Initial Order

ALL ADVERTISING MATTER FREE

Proprietors and Manufacturers:

B. WINSTONE & SONS, LIMITED,
100/1 St. Marks Lane, London, E.C.4.

Death Sentence

by order of



"EXTERPEST"

NON-POISONOUS

**Guaranteed to Exterminate
not Stupefy**

BETTER, COCKROACHES, CRICKETS,
FLEAS, STEAM FLIES, ANTS, MOTHS,
POULTRY INSECTS, WOOD LICE, and
all similar Insect pests and their eggs.

Mr. B.——, Bury.
"I am very pleased with Exterpest. It has worked wonders for me."

Sanitary Dept.—— Feb. 28th, 1923.
"I have pleasure in recommending Exterpest as an insecticide."
——, Chief Sanitary Inspector.

T. B. R.——, Southport. 16.4.23.
"Please forward —— doz. tins of Exterpest. We might say every tin of our former order was sold on recommendation."

Exterpest holds certificates of efficiency of Institute of Hygiene.

**OBTAINABLE FROM YOUR
USUAL WHOLESALER.**

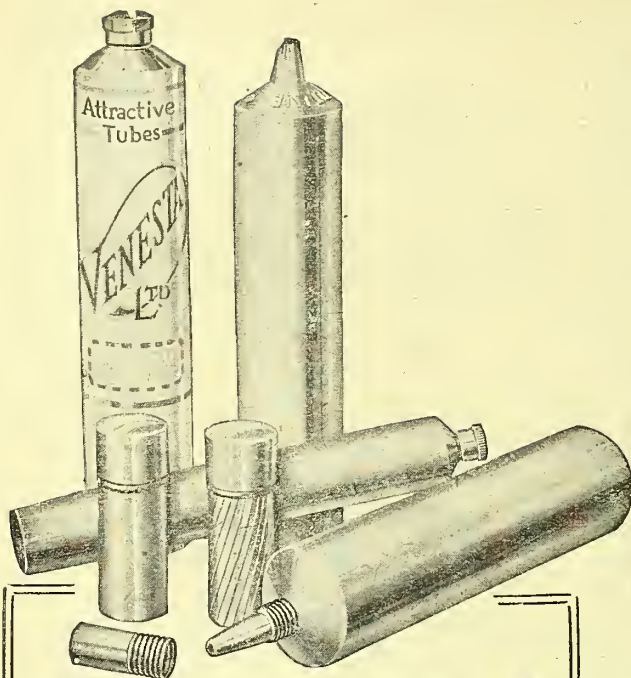
You can recommend it as thoroughly efficient and your profit is good.

Enquiries Invited.

Retails in Tins at 6d., 1/3, 2/6, 5/-

Smethurst & Meade, Ltd.

**16 John Dalton St.,
MANCHESTER.**



Venesta Tubes

When ordering your next supply of tubes remember that Venesta collapsible tubes possess a quality and finish that make them a real selling force.

They are made from Pure Tin, Lead or Lead-coated with Tin and supplied plain or enamelled and printed with designs to suit customer's own requirements.

We also supply Lip-salve Cases, Sprinklers, etc., and shall be pleased to forward illustrated lists, samples and current prices on application to—

G. Dept.

VENESTA LTD.

1 Great Tower Street, London, E.C.3.

Actual Manufacturers of
TINFOIL

Plain, coloured and embossed in any size, gauge or shape.

Cellophane

What Is It?

CELLOPHANE

is a transparent film of pure Cellulose, absolutely air, grease, and odour proof, unaffected by cold, heat or moisture, and sterilisable.

An ideal wrapping for Soap, Drugs, Tablets, Bath Crystals, Perfumery, Provisions, Sweets, Surgical Dressings, Articles of Toilet, Sponges, etc., etc.

Will keep your Goods, Boxes, Bottles, and delicate Labels clean on the Counter and in Shop Windows, allowing the Articles to be seen by transparency. Can be had colourless, coloured and embossed.

Also in the shape of Labels for Bottles, and Discs for Creams, Ointments, Boot Polish, &c.

Cellophane Envelopes and Bags, printed or not.

Agents Wanted where not represented.

Prices, Samples and Particulars from

The CELLOPHANE COMPANY

(GUSTAVE LECLERCQ).

7, 8 & 9 Bird Street, LONDON, W.1.



SELF-FIXING
HERMETIC
WASHABLE
BOTTLE CAPS
ARE
— ELEGANT —
— EFFICIENT —
— STRONGEST —
— CHEAPEST —
and BEST.

The VISCOSÉ
Development Co., Ltd.
BROMLEY :: KENT

SEMREH'S SELF-FIXING BOTTLE CAPS

STUBBS

Herbert Stubbs
Highest Grade
Compressed

CLOTH BALL

white and all colours

Samples & Prices (P.A.T.A.)

from 6 Crystal Palace Park Rd.
Sudham London, England

Did you notice last week's announcement of the new policy behind the distribution of MOVOL?



The very advantageous terms on which we are now able to offer MOVOL show to the chemist and druggist

38½% net profit

	Cost Price.	Selling Price.	Bonus Tubes.
2 doz. 6d. Tubes	8 - 0	12 - 0	2 6d. Tubes 1 - 0
1 doz. 1/- Tubes	8 - 0	12 - 0	1 1/- Tube 1 - 0
	16 - 0	24 - 0	2 - 0

Net profit 10/-, i.e. 38½%. 5% more than the usual profit.

If 1/- size Tubes are not desired we will supply three or four dozen 6d. Tubes with corresponding number of Bonus Tubes.

This little figure tells your customers about Movol.

Advertisements are appearing regularly in the Daily Mail, Daily Sketch, and News of the World.

This is NOT a SPECIAL OFFER

The above terms are the permanent basis on which Movol can be obtained. We pay carriage and supply suitable Advertising Material.

Sole Makers:

WM. EDGE & SONS, LTD., BOLTON



STAIN REMOVER

MADE IN SHEFFIELD, NOT IMPORTED

User writes:—"Can't understand people buying foreign blades when such as yours are obtainable."

WATTS

12 Perfect Blades in every doz.

6/6

er doz.

WATTS

They have a super keenness that ensures perfect service and makes them different from and better than all others.

WATTS

50% profit on cost for the dealer.

WATTS

JOHN WATTS, Dept. 3, Lambert Works, SHEFFIELD
Established 1853 years.
 London: 24 Redcross Street, E.C.1

BEST QUALITY.

CLINICAL

LONDON MADE.

THERMOMETERS

(EASY SHAKE).

Tested and Stamped at N.P.L. Complete in Card or Metal Cases.

2 min. Plain Per doz.	16/-	2 min. Lens front Per doz.	17/-
" " " "	17/-	" " " "	18/-
" " " "	18/-	" " " "	19/-

Your own name and address marked on FREE.
 5% discount allowed on orders for 6 dozen and over. Special quotations for larger quantities.

DAVIS & CO., 47 RED LION STREET, CLERKENWELL, E.C.1
 PHONE: CLERKENWELL 3209.

THOS. SWALES

SUNDRIES.

Dispensing Bottles (ordinary quality)
 Hygienic Feeders in Cartons
 Hygienic Teats and Valves
 "Howard" Cloth Cleaners
 "Howard" Corn Velvet
 Bidwell's Brushes
 Chip and Chepette Boxes
 Surgical Dressings, B.P.C.
 Brushes (Tooth, Nail, Shaving, etc.)
 Trusses, Elastic Stockings, etc.
 Ivory Small Tooth Combs
 Enemas and I.R. Syringes
 Clinical Thermometers
 Loofahs and Sponges

PRICES AND QUALITY RIGHT.

20/24 Butts Court, and 89 Albion St., LEEDS

BOTTLES.

I solicit your enquiries for MEDICAL FLATS in all sizes, plain and graduated, MEXICANS, POISONS, KALIS, LIMES, VIALS, CANNONS, OVALS, BRILLIANTINES, in all shapes. SCREW JARS, TABLET BOTTLES, etc. etc. All bottles used in perfumery and chemist trades. Special shapes made. Wholesale quantities only.

VAN DER HOEKS, 321/23 Bank Chambers, 329 High Holborn, LONDON, W.C.1.

FRED^K. FINK & CO.,

10 & 11 MINCING LANE, LONDON, E.C.3.

SPECIALITIES.—Gums Arabio and Tragacanth as imported or finely powdered.

THE MANCHESTER SCHOOL OF PHARMACY

Founded 1882 292 Oxford Road, MANCHESTER. [1882

Principal: H. BRINDLE, B.Sc.Hons.(Lond.), A.I.C., Ph.C., F.C.S.

The TERM commenced APRIL, 1923.

Prospectus sent post free on application.

The Best Hand-made Cigarette in a New Packing

Corinthian Sundried Virginia

The Brand to Handle. 1/4 per box of 20.

Carriage paid on any quantity. ALL TOBACCO SUNDRIES.

Enclosure sent to Wholesale London Houses.

SADLER & MOORE, Spital Square, Bishopsgate, London, E.1

SOX (non-poisonous) INSECTICIDE DYOWEED The Safe Non-Arsenical WEED-KILLER PRIZE-CROP (Alkaline) FERTILIZER

Every ounce is vital plant food.

Generous Trade Terms from

HAWKER & BOIWOOD, LTD., Grays, Essex.

"DEPENDABLE TOBACCO WHOLESALEERS."

MIXED PARCELS A SPECIALITY.

Established Fifty Years.

Price Lists mailed on request.

A PROFITABLE SIDE LINE
FOR CHEMISTS.

SINGLETON & COLE, TD., CANON ST., BIRMINGHAM.

DOOMO AIRSHIP FLY BAND



Write for quotations
A wide, long band,
sticky on both sides.

SMITH & CO., Doomo Works, NEWARK

SHADEINE

FOR COLOURING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses.

Trial Size 8d., per post 10d. 1/4 size, per post

1/7; 3/6 size, per post 2/11; 2/9 size, per post 4/6;

6d. size, 6/- doz.; 1/4 size 12/- doz.; 2/6 size,

24/- doz.; 2/9 size, 86/- doz.

THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.

CHICAGO HAIR DYE

Do you know where to obtain?

MADE IN FIVE SHADES.

Sole Proprietors: **SINGLE, DALBY & CO.,**
42 Oldham Rd., Manchester.

Telephone 574 Central.

RAZORS AND SAFETY RAZORS IN STOCK.

BLADES TO FIT ALL SAFETY RAZORS;
RAZOR BLADE STROPPERS (Various designs);
FEMALE FIGURES IN SOAP (Various shapes).

Bargain List sent on application.

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OF
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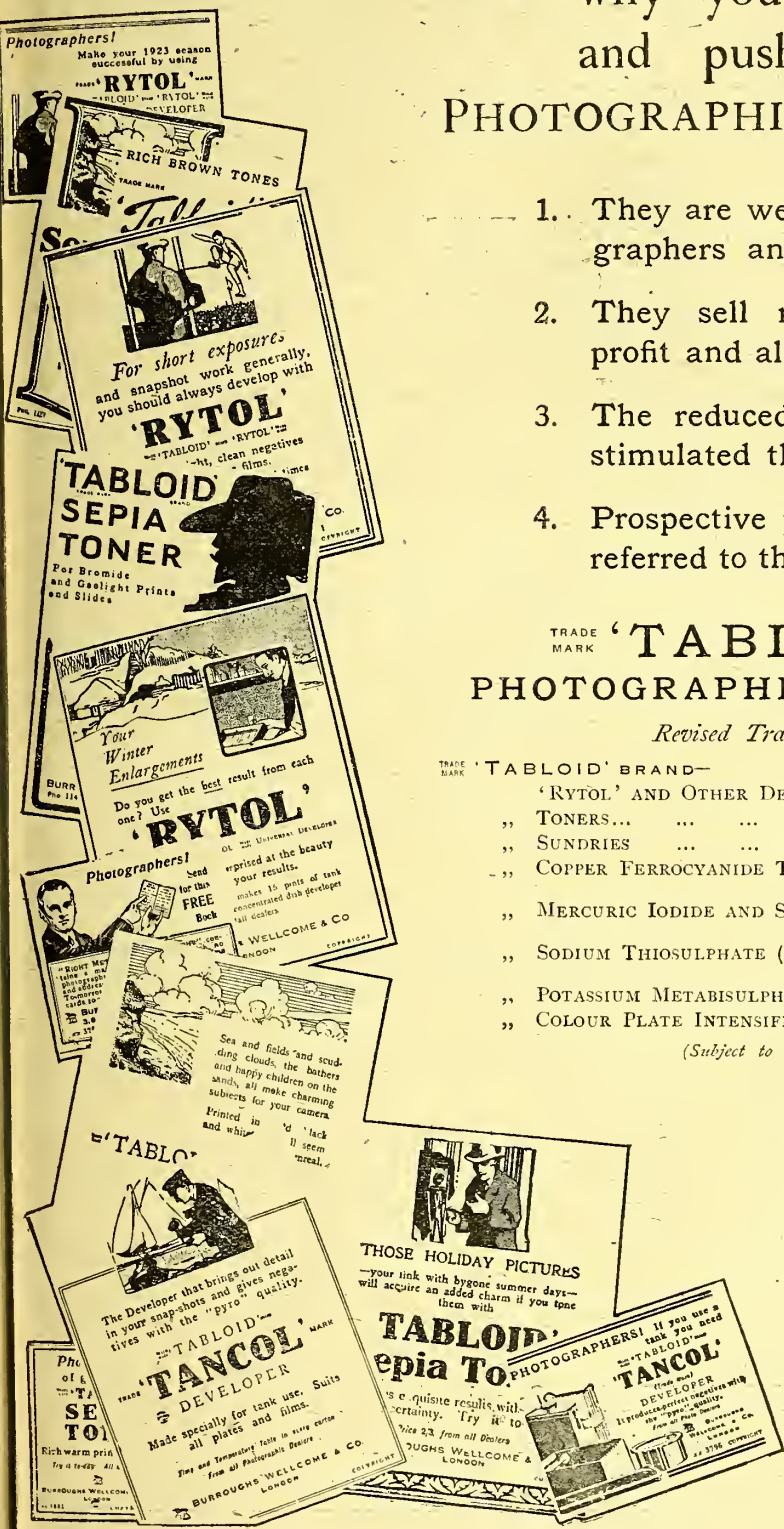
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Business Propaganda Pamphlets

WITH a view of advertising collectively the chemists' business, a pamphlet has been prepared for distribution by chemists to their customers. A space is provided in which the chemist's name and address can be given, by label or rubber stamp. The pamphlet of eight pages and cover is of small size (5½ x 3½ in.) adapted for insertion in pre-cription envelopes and parcels and is sold in packets of 50 at the following prices:—

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42 Cannon St., London, E.C.4.

English and Welsh News

The Editor would be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

The Royal Institution

At the monthly meeting of the Royal Institution, on May 7, the Duke of Northumberland (President) in the chair, Sir Joseph Thomson was elected Honorary Professor of Natural Philosophy, and Sir Ernest Rutherford Professor of Natural Philosophy. It was announced that the following had been nominated as Vice-Presidents for the ensuing year: Dr. Mitchell Bruce, the Earl of Iveagh, Sir Edward Pollock, Lord Rothschild, Sir Alfred Yarrow, Lord Justice Younger, Sir James Crichton-Browne (treasurer), and Sir Arthur Keith (secretary).

The British Chemical and Dyestuffs Traders' Association

After lengthy negotiations between the British Chemical Trade Association and the Chemical and Dyestuffs Traders' Association, it is interesting to note that a fusion has been announced. A powerful executive committee, drawn from both Associations, has been formed, the chairman and vice-chairman being the leaders of the two old organisations. We understand that many new members have been enrolled at the offices, 80 Fenchurch Street, London, E.C.3. The following is a list of the officers:—Mr. Victor Blagden (Victor Blagden & Co., Ltd., London), Chairman; Mr. Fredk. T. T. Reynolds (Millwards' Merchandise, Ltd., Manchester), Vice-Chairman; Mr. Walter Waugh (Walter Waugh & Co., London), Hon. Treasurer; Mr. H. A. Berens (Old Strand Chemical and Trading Co., Ltd., London), Mr. A. F. Butler (R. W. Greeff & Co., Ltd., London), Mr. A. Connell (A. Connell & Co., London), Mr. H. Gilliat (E. G. Jepson & Co., Leeds), Mr. G. A. Hamilton (A. & M. Zimmermann, Ltd., London), Mr. T. Henderson (T. Henderson & Co., Ltd., Glasgow), Mr. S. J. C. Mason (Bush, Beach & Gent, Ltd., London), Mr. Chas. Page (Chas. Page & Co., Ltd., London), Mr. H. S. Wilcocks (H. S. Wilcocks & Co. (Chemicals), Ltd., Manchester), Executive Committee. Mr. O. F. C. Bromfield is secretary.

Dangerous Drugs Act, 1920

[From "The London Gazette," May 8, 1923.]

RE WALTER THOMAS FUGE, CHEMIST AND DRUGGIST.

Whereas, in pursuance of the powers conferred upon the Secretary of State by No. 6 of the Raw Opium Regulations, 1921, and by No. 10 of the Dangerous Drugs Regulations, 1921, the authorisations granted by the Raw Opium Regulations, 1921, and the Dangerous Drugs Regulations, 1921, to persons who lawfully keep open shop for the retailing of poisons in accordance with the provisions of the Pharmacy Act, 1868, as amended by the Poisons and Pharmacy Act, 1908, to be in possession of and supply raw opium and to carry on the business of manufacturing, selling or distributing the drugs to which Part III. of the Dangerous Drugs Act, 1920, applies, were, by notice dated June 7, 1922, and published in the "London Gazette" on June 16, 1922, withdrawn from Walter Thomas Fuge, of 3 White Hart Street, High Wycombe, who had been convicted of an offence against the Dangerous Drugs Act, 1920;

And whereas the said Walter Thomas Fuge has applied, and the Pharmaceutical Society of Great Britain has recommended, that the said authorisations may now be restored to him.

Now, therefore, I hereby suspend until further order the operation of the notice of withdrawal of the said authorisations from the said Walter Thomas Fuge.

W. C. BRIDGEMAN,

One of His Majesty's Principal Secretaries of State.
Whitehall, May 3, 1923.

Poison Licence Applications

Colin Taylor, King & Co. (1911), Ltd., Watford, have applied to the Hertfordshire County Council for a licence to sell agricultural and horticultural poisons.

At a meeting of the Cumberland County Council, on May 2, Mr. Thomas Hardy protested against the recommendation that licences under Section 2 of the Poisons

and Pharmacy Act, 1908, be granted to the West Cumberland Farmers' Trading Co., Ltd., in respect of their branches at Cockermouth, Wigton, Bootle and Gosforth, and also licences to the persons in charge of each branch, because there were sufficient facilities for their supply at the present time. The regulations provided that the administrative body should take into consideration what facilities already existed in the various areas, but it appeared to him that they were not doing this. A decision not to grant any more licences under this Act was confirmed by the County Council in 1909, and this minute, so far as he was aware, had not been rescinded, and he moved an amendment that the matter be referred back for the clerk to report. Mr. Hardy denied that there was any intention of profiteering. The prices were regulated. It was not a question of profit, because in many cases the profit did not exceed 15 per cent. That was not an exorbitant profit. The greatest profit was about 25 per cent., and the statement that those who were dealing in dip were charging an extortionate price could not be substantiated at all. The amendment was defeated.

Inquests

In the course of an inquest held recently at Whitley Bay, it was shown in evidence that the deceased, Isabella F. Smart, had congestion in the lungs and gall stones. She had taken chlorodyne for what was described as a considerable period, and the cause of death was given as heart failure, following hypostatic congestion of the lungs, due to their being in a debilitated condition in consequence of taking chlorodyne.

An inquest was held in West London, on May 3, on the body of Mr. Arthur St. V. B. Guise, who, it appeared, was found dead in bed at a South Kensington hotel. It was stated that there were on the dressing-table four packets of veronal and a prescription. A hypodermic syringe and an unopened tube of tablets containing strychnine were also found. Dr. Brontë (Home Office) said, however, that there was no *post-mortem* indication of poisoning, and a verdict of "Death from natural causes" was given.

At Hackney (London), on May 3, a verdict of "Death by misadventure" was recorded after an inquest on the body of Willoughby D. Starbrook, who had been employed by a local company of plywood and horsehair merchants. In reply to Dr. Legge (Home Office), a brother of the deceased said that those working with the horsehair had been warned to wash with warm water and lvsol before having anything to eat, and did so. Dr. R. M. Brontë (Home Office) said that the line between natural and accidental death in respect of anthrax was a very thin one. If a man inhaled the bacilli, and pneumonia supervened, it would be a case of natural death, but if the bacilli secured location through a cut it would amount to accidental death.

Birmingham

Mr. Wakefield, Ph.C., has met with a nasty cycle accident, and is confined to his bed.

It is proposed to remove the Sturge monument, which interferes somewhat with the smooth working of the traffic at Edgbaston.

At the opening match of the King's Heath Cricket Club, Dr. B. G. Watson, who was formerly in business in Alcester Lane's End as a chemist and druggist, scored 54 not out.

Mr. A. W. Gerrard, Ph.C., celebrated his seventieth birthday on May 6. His friends will be pleased to know that, with the exception of slight eye trouble, he is enjoying excellent health.

The premises of Philip Harris & Co. (1913), Ltd., Edmund Street, were involved in an outbreak of fire on May 4. The flames were soon subdued, and the damage is understood not to be extensive.

Hull

A new pharmacy has been opened in Chariot Street by Mr. Turner.

Mr. H. Beecher Ward, who already has several pharmacies in Hull, has taken another one (former drug-store) in Kent Street.

More than £6 was raised by the whistle-drive recently by the Hull Chemists' Association. At last Association meeting a vote of thanks was paid to the ladies' committee, to whom the great success of the event was largely due.

Liverpool

Mr. Henry Peet, J.P., is about to revisit L. and Spilsby.

Mr. Percy J. S. Overton (R. Sumner & Co.) is gone to West Africa on a business tour.

The back of the Birkenhead tramway tickets is used by Mr. Roger Rowlands, chemist and druggist, as an advertising medium. Mr. Rowlands was recently Mayor of Birkenhead.

The committee of the Pharmacy Club inspected on May 8, two turf courts at Wavertree. The final opening is fixed for Whit-Monday, when a social gathering will be held.

A down town and lock-up pharmacy was entered by an American mother and adult daughter, who appeared to think that they could stay there all night. In despair, the pharmacist called a taxi-cab, but then the pair would not leave until the apprentice consented to accompany them to a boarding-house of remote confines of the city. After paying the fare the mother kept the apprentice answering questions for some time, with the result that he had to walk five miles to his lodgings.

A further series of receptions was arranged by A. Saunders & Co., Ltd., which were attended by a large number of guests. The visitors were received by Mr. and Mrs. W. H. Saunders and the directors of the company in the reception room, and as they were divided into parties of about ten, each party in charge of a guide, who conducted them first to the main building in Hanover Street, afterwards moving over to the manufacturing side in Duke Street, and finally leading them to the new canteen, where a cooling tea was served. The success which has attended these receptions was largely due to the organising exhibited by Miss Wilkinson, with the enthusiastic co-operation of all members of the staff.

Manchester

Wild & Salthouse, chemists, 307 Oxford Road, have opened a branch at 37 Palatine Road, Northenden.

The outside of the spacious building occupied by Woolley, Sons & Co., Ltd., wholesale chemists, Victoria Bridge, is undergoing a spring cleaning.

Miss Lucy Taylor, chemist and druggist, 95 Moss Lane, Hulme, has purchased an old-established pharmacy in Palatine Road, Northenden.

Councillor F. W. Bates, J.P., Brooks's Bar, has been elected chairman of the Stretford Education Committee—a position that he has occupied for twenty years.

Owing to unforeseen circumstances, the match of the Manchester Golfing Society, arranged to be played on the Chorlton Links, on May 9 (C. & D., May 5, p. 3), has to be played on the following Wednesday.

Mr. S. A. Harris is showing an assortment of cure requisites, and other goods, in which S. Gurr & Co., Ltd., Aldermanbury, London, E.C.2, specialise at the Grosvenor Hotel from May 28 to June 7.

The election committee in connection with the candidature of Mr. E. H. Simmons has been very busily engaged during the past week. Their candidate is undoubtedly a really sound man and worthy of the chemist's vote.

Bryan & Spedding, Ltd., chemists, 48 Deansgate, have their windows and frontage placarded with posters announcing a clearance sale owing to having notice of the completion of their new premises. Complete and up-to-date chemists' shop-fittings, cases and utensils are for sale, and can be obtained at prices that should prove a bargain to the purchaser.

Sheffield

Mr. Wynne, the medical officer of health, is lying seriously ill in hospital.

The latest municipal trading reported is the supply of tooth brushes and paste at a nominal charge.

Mr. H. Owston, chemist and druggist, has taken over management of Mrs. Little's business, 197 Attercliffe Rd.

The city is experiencing another influenza epidemic, which has caused quite a rush of both private and dispensing.

The workers' subscriptions under the penny in the £ have placed the Royal Hospital on a paying footing, a state of things which has not happened for many years.

Miscellaneous

FIRES.—An outbreak of fire occurred, on May 2, on premises of Bell & Bell, chemists, Rugby, and caused considerable amount of damage.

WAGES DISPUTE.—On May 7, 150 of the employees of Messrs. Stagg & Morgan, Ltd., manufacturing chemists, 100, Not Street, London, E.1, struck work in consequence of reduction in wages. The dispute was proceeding at the time of our going to press.

THEFT.—The shop of Mr. Joseph Grayson, chemist and druggist, High Street, Kensington, London, W.8, was broken into during the night of May 7-8. The thieves apparently took considerable trouble in opening the safe, which at the time contained £19.

WHOLESALE DRUGGISTS' CRICKET CHAMPIONSHIP.—In preparation for their opening match in the league, against Messrs. G. H. Burdides & Co., Ltd., on May 12, the May & Co. Cricket Club played a "house" match, Bell Lane Garden Wharf, at Raynes Park, London, W., on May 5. A close game resulted in the latter's favour, scores being 47 and 50 respectively.

SOCIETY OF CHEMICAL INDUSTRY.—The annual meeting of the Society of Chemical Industry are to take place at Cambridge on June 20 to June 23 inclusive. The sessions are to be held in the Arts School, The University of Cambridge, for which include the presidential address (June 21), the presentation of the Society's medal to Dr. C. C. Carpenter (June 22), and an address by Dr. F. Aston on isotopes. The Vice-Chancellor's reception will be given in the Fitzwilliam Museum, and that of the President (Dr. E. F. Armstrong) in the Guildhall. Visits to various colleges and to Ely Cathedral are also in the programme.

DRUG ADDICT CHARGED.—At Marylebone Police Court, London, on May 7, Eric Charles Harper (31), engineer, giving a hotel address, was remanded on a charge of selling morphine tablets, value £1, from the shop of Allen & Hanburys, Ltd., 7 Vere Street, W.1. It was stated that accused had been addicted to morphine for many years, and had just returned from Brazil, where apparently he could obtain it in any quantity. On May 6 he paid four visits to Messrs. Allen & Hanburys' shop with a prescription for ether, which was supplied him. He had learned that the dispenser had to go downstairs for it, he took the opportunity of appropriating the morphine.

THE COURTS.—At Stafford, on May 3, two boys, aged fourteen, were placed on probation for breaking into the premises of Fowke & Son, chemists, and of Mr. Maurice Averill, chemist and druggist, Market Square, and stealing from the latter shop six bottles of medicinal wine, value £1 16s.—Strychnine was reported (at Macclesfield Street Police Court, London, on May 3, to have been found between slices of meat in the pocket of a man named Moore, who had been arrested as a suspected person, Mr. J. R. Nicholls, Government Analyst, having certified that 0.4 gr. was present. The accused was committed for trial.—At York City Police Court on May 4, James Kilmartin was sentenced to a fortnight's imprisonment for stealing a bottle of cod-liver oil, two boxes of pills and a tin of health salts, value at 5s., the property of Mr. Thomas Batty, chemist and druggist, Walmgate.

Irish News

Brevities

Sligo County Council has appointed Mr. R. F. Fagan, Dublin, as analyst.

Mr. J. McClelland, M.P.S.I., has been elected to represent the Synod of Enniskillen at the Wesleyan conference in Belfast in June.

At a recent meeting of the Roscommon County Council, it was stated that the Local Government Department had refused to sanction the appointment of Mr. R. Horne as analyst on the ground that he was not qualified. The secretary was requested to ask the Department in what respect Mr. Horne was unqualified.

Among the guests invited to the Mayoral reception in Londonderry on the recent state entry to the city of the Governor of Northern Ireland were Mr. H. E. Young, Ph.C. and Mrs. Young; Mr. Jas. Glendinning, Ph.C., and Mrs. Glendinning; Mr. John Maxwell, Ph.C., and Mrs. Maxwell; Mr. S. Dale, Ph.C., and Mrs. Dale; Dr. W. A. Frizzell, Ph.C. and Mrs. Frizzell; Mr. H. L. Craig, R.D., and Mrs. Craig; Mr. J. Wellwood, Ph.C., and Mrs. Wellwood; Mr. Arthur E. Dickson, Ph.C.

Belfast

Mr. J. Harold Totton, Donegall Square South, has been appointed county analyst by the Antrim County Council.

Mr. James Tate, M.C.P.S.I., Royal Avenue, who has been ill for the past three weeks, is making progress towards recovery. Councillor M. McDonald, M.P.S.I., Donegall Street, who has been laid aside with influenza, has recovered.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Tuesday, May 15

Pharmaceutical Society of Great Britain (South-West Metropolitan Branch), Carpenter's Restaurant, near the "Plough," Clapham Common, at 8.30 p.m. Annual meeting. Lecture by Dr. Stanley White on "Vitamines."

Wednesday, May 16

Manchester Pharmaceutical Golfing Society will play at the Chorlton Golf Club.

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, W.C., 12 noon. Annual meeting.

Thursday, May 17

London (Western) Pharmacists' Association, Slater's Restaurant, 192 Oxford Street, London, W., at 8.30 p.m. Annual meeting. Election of six members of Committee.

Pharmaceutical Society of Great Britain (Cambridge and District Branch), "The Dug Out," Guildhall Street, at 3 p.m. Meeting. "The Report of the Education Committee in relation to Apprenticeship," discussion introduced by Mr. E. Saville Peck; "Dangerous Drugs Act," discussion introduced by Mr. W. R. Jeeves. Tea will be provided (2s.).

The Chemical Society, Burlington House, Piccadilly, London, W.1. An informal meeting will be held, after the conclusion of the scientific meeting, at 8 p.m.

North-East London Pharmaceutical Association, St. John's Institute, Urswick Road, Hackney, at 5 p.m. Annual meeting. Mr. G. A. Mallinson on "Chemists' Accountancy."

Friday, May 18

Royal Institution of Great Britain, Albemarle Street, Piccadilly, London, W., at 9 p.m. W. Morris Mordey on "Recent Studies in Alternating Magnetism."

THE NORTH LONDON PHARMACEUTICAL ASSOCIATION are paying a visit to Parke, Davis and Co., Hounslow, on May 24. Charabancs will await members and friends at Tufnell Park Road, Holloway end, at 1.30. Notification of intention to join the party should be sent to H. Skinner, The Dispensary, Royal Northern Hospital, N.7.

Scottish News

Brevities

Mr. D. W. Croll, chemist and druggist, has opened a business in St. James' Street, Paisley.

Ex-Provost MacFarlane, chemist and druggist, has been appointed President of the Fort William Merchants' Association.

Stevenson Parish Council has appointed Messrs. J. & E. Russell, chemists, and Mr. T. M. Taylor, chemist and druggist, to supply medicines.

A pharmacist in the North, who has lately secured employment, states that he has been applying for from six to ten situations per week since last October.

"Some years ago," writes a correspondent, "I was in the employ of a chemist who had a rule, from which he allowed no departure, that when called away from dispensing to serve a customer the mixture, or whatever it was, had to be thrown away and a fresh start made."

The annual competition for the Ayrton Saunders trophy of the Scottish Chemists' Bowling Association will be held in Paisley on June 6. Rinks from all parts of Scotland are eligible; and entries, accompanied by the fee (14s. per rink), should be in the hands of the secretary, Mr. John T. Simpson, 268 Crown Street, Glasgow, not later than May 23. Players unable to form rinks should send in their names with the position they play (entrance fee 3s. 6d.) to the secretary, who will allocate them to rinks.

Dundee

By the appointment of Mr. W. Sime (*C. & D.*, April 14, p. 501) as parish councillor, the chemists of Dundee are again, after a long interval, represented on a public board.

In Dundee Sheriff Court, recently, Mr. J. Ruxton, chemist and druggist, Keptie Street, Arbroath, pleaded "Not guilty" to ten charges under the Dangerous Drugs Act. Proof was fixed for May 17. The alleged contraventions include charges of supplying drugs on prescriptions not in conformity with the Regulations and omitting to record the transactions in the register.

Edinburgh

Pharmacies in Edinburgh will be closed on May 22, Victoria Day.

Mr. Alexander Johnston, managing director, North British Rubber Co., Ltd., has been elected senior vice-president of the chamber of commerce.

Preparations are being advanced for the holding of the annual pageant in aid of the Edinburgh Royal Infirmary, on May 26. Many of the principal firms and business establishments are again providing characteristic tableaux representative of the leading industries in the city.

The competition for the Cumming prize, open to apprentice or undergraduate members of the Edinburgh Chemists', Assistants' and Apprentices' Association, has this year been awarded to Charles Drummond (Powell & Co., Leith). A special prize (value 10s. 6d.), presented by Mr. Arthur Cairns to the candidate coming second in the competition, has been awarded to Agnes Donald (Mr. H. B. Wyllie), Grassmarket.

The third competition of the Edinburgh Chemists' Golf Club was played over Lethianburn golf course on May 2. There was a large attendance of members, the prize-winners being:—(1) Mr. A. Henderson, 78 net; (2) Mr. K. J. McLennan, 79 net; (3) Mr. J. W. Brown, 80 net. The special handicap prize was won by Mr. J. P. Gibb with a score of 83 net. A dozen golf balls have been presented towards the club prizes by Lorimer & Moyes, Ltd., Glasgow.

The summer activities of Edinburgh Pharmacy Athletic Club have now commenced. Tennis courts have been secured at Murrayfield, and cricket will be played at The Meadows. The date of the annual sports meeting has been provisionally fixed for June 27. Anyone connected with pharmacy in the district is invited to join the club, and the necessary particulars may be

obtained from the secretaries. The following officers have been elected for the 1923-24 season: *Honorary President*, Lieutenant-Colonel Turner Ewri M.A., D.S.O.; *President*, Mr. P. K. Brown; *Vice-President*, Mr. W. D. Richardson; *Treasurer*, Mr. C. Coats; *Secretaries*, Messrs. Newton Graham, 79 Gilma Place, and Albert M. J. Gray, 10 Hilmand Terrace, Slateford Road.

Glasgow

Mr. S. A. Harris is showing an assortment of musical requisites and other goods, in which S. Guiterman & Co., Ltd., Aldermanbury, London, E.C.2, special at the St. Enoch Hotel, from May 14 to May 22.

The first rink game of the season of the bowl section of the Glasgow Pharmacy Club will be played on Jordanhill bowling green on May 15. Following game the draw for the first round of the single-hand competition for the Greig trophy will take place.

Royal Academy of Arts

GLEANINGS from a pharmaceutical standpoint in year's Royal Academy Exhibition, which opened at Burlington House, London, W., on May 7, are, perhaps less than average interest. The usual number of flow single or collectively as herbaceous borders, makes appearance; and calcium oxide and carbonate figure in time-honoured manner as lime-pits and chalk cliffs or respectively. Portraits are quite up to the average number and interest. That of Sir Joseph Thomas F.R.S. (153), presents the Master of Trinity College, Cambridge, in a pose familiar to those who have heard him speak. That of Mr. Edward Shortt (399) will, drug-trade visitors, revive memories of the inception the Dangerous Drugs Act; and that of Sir Edward shall Hall, K.C. (146), son of a distinguished consultant of a former generation, will recall a charge of poison which he not long since defended. Other portraits of interest are those of Sir William Church (230), President of the Royal College of Physicians from 1899 to 1905; Sir John Morris (31), the well-known medical specialist; Aldrich Blake, M.D. (129); and Mr. George Terrell (1), President of the National Union of Manufacturers. Among the miniatures are two by daughters of a Sussex pharmacist; "The Golden Image" (385), by Miss J. L. Br. depicts a tall, slender girl, delightfully posed before a screen designed in black and pale gold; the contribution of Miss E. C. Brisley to this year's exhibition is a portrait (993) full of charm. In the architectural room there are the designs of Sir Aston Webb (President of the Royal Academy and a brother of Mr. E. Alfred Webb, P. 1) and Mr. Maurice Webb (1,159, 1,242, and 1,255) attract attention by their dignity and strength; and the Arlington Gardens frontage of the premises of J. Atkinson, Ltd. (1,256), is well worth examination for skilful adaptation of material to purpose. The sculpture section includes one exhibit (1,419) that will make a strong appeal to pharmacists of more than one generation—a replica of a memorial to the late Colonel F. F. Harrison, of which we gave an illustration in the *C.*, II., 1922, p. 733. The inscription round the border of the bronze centrepiece reads: "To save our armies from poison gas he gave the last full measure of devotion." In this section, too, the contributions of Mr. F. M. Taubman, artist and pharmacist, are striking in many respects. Of three different kinds of material. One (1,400) is of three large medallions in silver; another (1,411), entitled "Logs," is taken from a series symbolic of Canada, and is executed in bronze; the third (1,429) is a portrait bust in plaster. Among other busts in this section are those of the late Sir James Spence (1,343); the late Lord Lister (1,365); Sir John Sutton, the well-known surgeon (1,465); Sir Joseph Harrison (1,504), and the late Dr. Ludwig Mond (1,535). One book-plate (1,095), so far as we were able to cover, rewards the search; but visitors who are tempted to grieve at this and other shortcomings may comfort themselves with the inevitable Tutankhamen.

French News

(From the "C. & D." Paris Correspondent.)

SARAH BERNHARDT played many parts during her long career, but the only rôle of a semi-pharmaceutical nature she remembered was in the "Sorcière," in which, as a Moorish maiden, she culled herbs and simples.

M. CHRISTIAENS, the recipient of the Brassac Prize of the Pharmacie Centrale de France, is one of the leading chemists-pharmacists whose establishment was utterly destroyed by the bombardment during the war.

It is proposed to replace the present modest Roll of Honour in the vestibule of the Paris Faculty of Pharmacy by a monument in the forecourt of the Faculty, to the memory of pharmacists who fell in the Great War.

A CASE is now being tried in Paris for offences against the French Dangerous Drugs Act, in which sixty morphomaniacs, nine doctors and six pharmacists are among the accused. There seems no reason to believe that the pharmacists did anything except dispense apparently regular prescriptions, but naturally the large number of persons implicated has aroused considerable interest.

BELGIAN RADIUM FACTORY.—Madame Curie, accompanied by Dr. Regaud, director of the Biological Laboratory of the Paris Radium Institute, recently visited the factory established at Olen (C. & D., February 24, p. 264), the extraction of radium from ore discovered at Tanga, in the Belgian Congo. This establishment, erected in less than six months, is stated by a Parisian to be "so perfect that the Americans, the first producers of radium on an industrial scale, immediately gave up its manufacture," and Madame Curie expressed her satisfaction at the prospect that the supply of radium required for medical purposes was now assured.

COST OF PRESCRIPTIONS.—A statement was made that the 1000 odd prescriptions annually dispensed by Parisian pharmacists for paupers and paid for by the Assistance Publique worked out at fr. 4.57 each, while those dispensed in the public municipal dispensaries (some 1000) averaged fr. 4.32 only. The Pharmacists' Association investigated the figures and pointed out to the Administration that in making this calculation one little detail had been overlooked. The salaries of the eighteen pharmacists of the dispensaries and sundry accessories had been omitted. If these expenses were included—as they usually ought to be—the average cost of a prescription dispensed in a dispensary will be found to amount to fr. 5.62.

BEER AND ENGLISH BEER.—The following anecdote of Pasteur was cited by M. Béhal in his address at the Academy of Medicine:—"Early in 1871 Pasteur was invited to visit a large English brewery. Received in England as a representative of French science, he did not stop long to chat with the heads of the establishment, but studied, microscope in hand, the various yeasts. He examined the samples of beer in casks, and pointed out those likely to deteriorate. A week later he returned. Not only had they bought a microscope, but the beer yeasts had been changed. He was happy to find the English, who willingly accept the title of 'practical men,' the proof of what disinterested science can effect in the domains of utility."

FINES AND PENALTIES aggregating about £100 have been inflicted on a Paris pharmacist for an offence against the French Dangerous Drugs Law, in addition to having his business closed for one week. A prescription had been presented calling for 1.2 grams of heroin in six days. The pharmacist made it up in six days (on his own initiative) instead of making one every only, but did not inscribe any transaction on his special register until the date of delivery of the last dose. The expert appointed by the court (M. Honorat, of the Paris Faculty of Pharmacy) submitted that the law did not forbid pharmacists to divide medical prescriptions, nor force them immediately to inscribe each partial delivery on the register, but the court decided to accept this view. Possibly the fact that the pharmacist's client had a doubtful record tended to increase the severity of the sentence.

THE MARSEILLES AFFAIRE.—The owner of an important pharmacy in Marseilles is the thirty-third person arrested in connection with the alleged wholesale abuse of the medical pass-books issued to wounded soldiers. The general charge against those in custody—among whom are doctors as well as pharmacists—is that wine, toilet requisites, razors, eau de Cologne, and sundries were supplied to the men holding pass-books, and that the vouchers or invoices for the value of such goods were presented to the authorities as representing the medicaments to which the men were entitled. Some fantastic figures have been published; the "Journal" talks of the pharmacist having made a million francs profit by these illicit practices, but this is probably a gross exaggeration.

DISPENSING BY VETERINARIANS.—The "Matin," which is systematically urging the necessity of revising the existing legislation on pharmacy, recently published an article by Dr. P. L. Rehm on the veterinary side of the question. The writer claims for the veterinary surgeon the right to dispense as well as to prescribe. He argues that the latter is often called in only at the last moment, when prompt action is indispensable. He adds that pharmacy forms part of the curriculum during the four years' course at a veterinary school, and that two years' practical work is required, which is not the case in a medical college. As a matter of fact, he states, the French veterinary surgeon usually carries a portable medicine case, especially when visiting out-of-the-way farms, and often has actually to administer the medicine.

RESEARCHES ON TUBERCLE BACILLUS.—The Academy of Medicine has awarded the Louis Boggio Prize (4,500 fr.) for 1922 to MM. A. Goris (head pharmacist of the Dubois Hospital, Paris) and A. Liot for their work on "The Chemical Composition of the Bacillus of Tuberculosis." During the war, at the Paris Pasteur Institute, M. Borel showed some cultures of Koch's bacillus to M. Goris, who remarked they looked like mould. Was it possible that this bacillus was a plant? He cultivated the bacilli in a mixture of glycerin and asparagin, placed them in glass flasks, and left them in an incubator for three weeks. The result was a few grams of mould of a dangerous nature. At the end of a year he had about 4 lbs. He washed this quantity in iced water, dried and powdered it (not without some risk to himself and his assistants). It was then treated with about 50 lb. of chloroform, which produced a dark-brown paste, and a whitish-grey powder soluble in water. The paste contains fatty matter, waxes, and a special ether which M. Goris names hyalinol. Here his experiments have, for the present, terminated for lack of funds.

PROPRIETARY TITLES.—In 1874 a French pharmacist put on the market a laxative under the name of "Thé Jean-Bart." Its success encouraged imitators, some of whom used the same title. In 1899 the original inventor decided to register the name, without, apparently, taking further steps by prosecuting those still using it. On his death his son, in 1920, went into partnership with two other persons (all three were non-pharmacists) and formed a company for selling this and other remedies. Then an action was brought against one of the very numerous pharmacists using the name (the number at present is stated to be about a hundred). The Paimbeuf Court held, and this view was confirmed by the Rennes Court of Appeal, that the tardy action of the inventor was tantamount to acquiescence in the assumption that the title was a common designation. The owner of "Sirop Delabarre," on the other hand, has been successful in retaining his right to the exclusive use of this title, the court holding that a person having the same name (or a name almost identical) has not the right to put a similar article on the market, and still less to use the word "Véritable" (genuine). The fact that the original M. Delabarre had handed his business over to a person with another name, also the claim of the imitator to the right to use "his own name," would not justify such a proceeding in the case of a name already well known in connection with a special preparation.

American Notes

By "The Man from London."

PROFESSIONAL PHARMACY, though representing only 10 per cent. of the average business, seems to need a lot of laws. Six bills affecting pharmacy have been introduced in California.

NEW TREATMENT FOR PNEUMONIA.—A few days ago a new treatment for pneumonia was announced, which consists in heating the congested lungs by means of an alternating current of electricity. Excellent results have been obtained which are vouched for by physicians of repute.

PRESCRIPTIONS IN ENGLISH.—A Bill requiring that all medical prescriptions be written in English was recently introduced in the Wisconsin Assembly. Nowadays there are so many specialities advertised and prescribed, that the innovation is not likely to be noticed by the public or the pharmacist.

HYDROGEN SOLIDIFIED.—The U.S. Bureau of Standards has succeeded in freezing hydrogen, the freezing point being -259° C. The gas was liquified at a temperature of -253° C. All the temperatures were produced by expanding the gas itself after it had been compressed under 3,000 pounds to the square inch.

PHARMACEUTICAL RESTAURANTS.—Owing to many drug stores running "luncheonettes" at their soda fountains, the special taxes and licences applicable to hotels and restaurants in Sacramento will be applied to such pharmaceutical emporiums, and a bill to that effect will shortly come up for consideration in Los Angeles.

CERTIFICATE AWARDED TO A PHARMACY.—At the Industrial Exposition, held in the 23rd Regiment Armoury, Brooklyn, N.Y., from April 7 to 14, the Chamber of Commerce awarded a number of "certificates of recognition" to industrial, commercial and professional institutions that have been in business more than twenty-five years in the borough of Brooklyn. The recipient of one of these certificates was the Verena Pharmacy, 1341 Fulton Street, established in 1874, and serving the community continuously since then. The owner, Professor Otto Raubenheimer, well known in pharmacy throughout the world, is justly proud of the certificate, a striking tribute to professional pharmacy.

NEW RULING ON PHENOL COEFFICIENT.—Insecticide and fungicide manufacturers in America are protesting against a new rule that has been suddenly sprung upon them by the U.S. Department of Agriculture by a notification that their preparations must contain either phenol or a chemically-related ingredient. Large manufacturers, who declare that the new ruling will play havoc with their business, claim that the phenol coefficient has always been considered sufficient to determine the relative germicidal value of an article or preparation, and the Department itself has formerly shared the same opinion. This decision is a serious one, as any preparation not conforming to the new ruling would be considered misbranded.

ARBITRATION OF COMMERCIAL DISPUTES.—The settlement of international trade disputes by commercial arbitration, making it possible for merchants to avoid the expense, delay and loss of business friendship incidental to litigation, has always been encouraged by the United States. One of the most promising achievements in this direction has been brought about by the establishment of the International Chamber of Commerce, of which the Chamber of Commerce of the United States is a constituent. National committee groups have been formed in Austria, Belgium, Denmark, Great Britain and many other countries, including France, and each is represented by a resident commissioner in Paris to work with international headquarters.

U.S. PLANS TO GROW OWN RUBBER.—An appropriation has just been made by Congress for the purpose of investigating the possibilities of rubber growing in the Philippines, in the hope of one day being independent of the British rubber producers, who at present control 80 per cent. of the output of crude rubber. The rubber consumed alone by the American automobile industry last

year was valued at more than \$1,000,000,000, and the demand is expected to increase by leaps and bounds from now on. Certain South American countries are also under consideration, and are said to offer great possibilities. Experts who have looked into conditions in the Philippines say that the southern part of these islands are excellently suited to the industry's development.

RETURN OF WAR CONFISCATED PROPERTY URGED.—Alien Property Custodian Miller, in the course of his testimony before the House Commerce Committee on a Bill to return to their owners small properties seized during the war, said he favoured releasing all trusts taken from Austro-Hungarian subjects. Mr. Miller said that patents on the Alien Property Custodian books were entered as of value, and unless the Bill excepted them the owners could demand return under the plea that trusts valued at less than \$10,000 should be returned, and that \$10,000 out of trusts valued at more than that amount should be relinquished. He called attention to the Government's statement to recover patents sold to the Chemical Foundation, declaring it would be difficult to subdivide the \$250,000 received from the sale among the thousands of former owners. It will be recalled that nearly 5,000 patents were bought by the Chemical Foundation from President Wilson's Government and disposed of for certain considerations to American dye and chemical manufacturers.

HALF MILLION FALSE WHISKY PRESCRIPTIONS.—According to Palmer Canfield, Federal Prohibition Director of New York State, 500,000 counterfeit and forged whisky prescriptions have been discovered in retail drug stores in New York City in the last five months by Prohibition agents who have been checking the permits. He pointed out that a holder of a permit to sell liquor and alcohol by retail has the opportunity of clearing these items alone more than \$8,000 a year in doing business on a strictly legal basis. Each retail druggist is entitled to withdraw 100 gallons of distilled spirits and 100 gallons of wine every three months, it is said. The average druggist who withdraws 80 gallons of whisky and 20 gallons of alcohol makes at that rate for the year a net profit of about \$5,000 on which he buys at \$1.50 per pint and sells for \$3.35 per pint. An additional \$3,000 is cleared on the alcohol withdrawn on permits. Some idea of how "dry" New York City is and how "wet" the drug trade is said to be may be drawn from the above.

POWER OF THE SAMPLE IN EXPORT SELLING.—Many export successes have been won through the proper use of samples, and exporters should study its potentialities. A special article in "Commerce Reports" for February draws attention to the fact that no verbal or written description and no illustration of a product can have the same compelling force upon a prospective customer as the sight of the product itself. It supplies concrete evidence of the truth or falsity of the exporter's claim. A practical demonstration of a stain remover by a salesman supplies a convincing reason for purchase. Many exporters fail to recognise the great value of samples to the export salesman in selling certain lines of goods. A sample set, to be of real use as a sales force, should be complete to the last detail (including two of a kind on types of samples where breakage may occur) and should be provided with a setting for display which will reflect proof as to the high standing and dignity of the manufacturer. An interesting example is quoted of how a sampling campaign can be made link up the dealer with the consumer in the case of a maker of toilet preparations. From his dealer in a certain foreign market he secured a list of 100 users of one or more of his products. When he sent the next order he enclosed free of charge 100 miniature sample sets in which all his products were included. A letter was then mailed to each of the 100 users of his products saying if they would call upon such a dealer he would give them a sample set in presentation of this letter. This sampling campaign reaped very gratifying results and had the threefold merit of attracting favourable attention, of making the dealer a partner in the sales effort, and of bringing the user and dealer together.

South African News

(From "C. & D." Correspondents.)

The *Chemist and Druggist* is supplied weekly to members of all the Chemists' Societies in South Africa.

Cape Province

OWNED AT SEA.—A sad affair occurred on March 3 Cape Point. A powerful motor fishing boat, making maiden trip, left Table Bay for Kalk Bay, with a crew of fifteen on board, including Mr. Herman Arvidson, manager of Chamberlain's Proprietary Medicines Ltd., Cape Town. About 11.30 that evening, when five miles from Cape Point, a swell set in, and the boat began to lurch uncomfortably, and Mr. Arvidson, proceeding from the bows to the stern, fell back into the sea and was not seen again, though the boat was kept up for an hour and a half. Mr. Arvidson left a widow.

DAGGA HABIT.—The police courts have been since the new Habit-Forming Drugs Act dealt with cases coming under the head of keeping or selling dagga, and heavy penalties have been inflicted. The Act provides that no chemist may supply anyone with dagga without a prescription from a medical practitioner or a veterinary. The latter terminology is uncertain, and has been taken advantage of by unqualified individuals, who for a few shillings are prepared to supply necessary prescription.

SHILLING FINE.—Considerable interest was taken in a case at the First Criminal Court, Caledon Square, Cape Town, recently, in which a European, named Mertsch, described as an importer, carrying on business in Riebeeck Street, was charged with contravening the Habit-Forming Drug Regulations by illegally in possession of 280 tubes of cocaine hydrochloride. The evidence it appeared the cocaine was imported in January 1922 by Mertsch, who was carrying on business solely with chemists and medical practitioners. At the time he appeared to be unaware of the fact the drug was prohibited without a permit. The magistrate said that the case was one that did not call for infliction of a severe penalty, and a nominal fine of £1 would be imposed.

The Union

PATENT MEDICINE TAX MODIFIED.—Mr. Burton (Minister of Finance), in the Cape House of Assembly on March 18, before the Budget debate was resumed, made a statement with regard to the proposed tax on patent medicines. "He found," he said, "that there was a good deal of opposition raised throughout the country to the proposals of the Government, and there was a great deal of feeling; so much so that it became clear we were striking a vital part of the national life. After consultation with the chemists, he was happy to say that they have been able to meet their difficulties, and they are satisfied the Government granting them certain concessions. The changes are that there shall not be included in patent medicines, medicines made up from the British Pharmacopoeia and British Pharmaceutical Codex formulas." Mr. Burton added that there must not be any advertisement on the label stating that the contents were a remedy for the cure of any particular disease or diseases. Medicines which from time to time might be proclaimed in the market "would also not be included in those liable to the tax. The tax on perfumes would be abandoned, but the excise duties on these articles would be increased. The chemists also complained," said Mr. Burton, "of the difficulty they will be placed in with regard to the payment of the tax—or every man having to stamp every bottle of these bottles in his retail shop which is displayed, and every man not being in a financial position to do so. We have met them satisfactorily in this also. The Government is prepared to supply the necessary revenue on a bond being entered into or sufficient security being given for repayment in twelve monthly instalments, ending on April 30 next." Mr. Christie asked to know if the chemists were quite satisfied. Did the Government put the chemists agree to waive their objection to the tax? "They would, of course, rather than pay the tax," replied Mr. Burton, drily.

Colonial and Foreign News

SPANISH PHARMACISTS are protesting vigorously against a recent decision of the commission of the royal council permitting medical men and veterinary surgeons to manufacture and issue organotherapeutic products, serums and vaccines. It is pointed out that this concession marks a grave infringement of the pharmacist's exclusive right to the preparation of all remedial agents.

"*LA REVISTA FARMACEUTICA*," the journal of the Argentine National Society of Pharmacy, recently completed its sixty-fifth volume. Founded in 1856 by Don Bartolomé Marengo "to emancipate our pharmacy from the other branches of science," its pages are devoted to a presentation of the progress realised in the various subjects of interest to pharmacy, and is eminently a scientific journal, while not neglecting professional interests. The present editor is Dr. Antonio Badia.

BARIUM SULPHIDE POISONING.—Following on the death of the Maharajah of Akalkot, in Poonah Hospital at the beginning of April, after he had been given barium sulphide for barium sulphate, the assistant surgeon at the hospital has been sentenced to three months' simple imprisonment for administering the drug without examination, in spite of its label and smell, and also for not summoning another doctor until an hour after the poison had taken effect. The dispenser at the drug stores was only fined a hundred rupees in view of his straightforward admission of the mistake to the police.

PROFESSIONAL REPRESENTATION IN AUSTRIA.—A member of the Austrian parliament has raised the question of creating a special pharmaceutical department, in charge of a pharmacist, in the ministry of public health. The present system of entrusting the control and administration of professional matters to officials not possessing any pharmaceutical training entails an unnecessary loss of time and is also productive of considerable friction. In addition, it is pointed out that the centralisation of all matters pertaining to pharmacy in a responsible department, in charge of a pharmacist, would prove of considerable benefit.

PHARMACY IN DENMARK.—Owing to the limited number of pharmacies, and the large number of qualified assistants on the waiting list, the prospects of owning a business in Denmark are for the majority of the members of the profession extremely slender. During the past year six new pharmacies were opened, and only twelve assistants became owners, the average age of the successful candidates being 52.4 years, as compared with 49.6 years in 1921 and 48.5 years in 1920. Unemployment among pharmaceutical assistants is on the increase, there being at present twenty-five male and fifty-two women pharmacists without situations, and this figure will be further swelled by the addition of some seventy new assistants now presenting themselves for examination.

THE OPIUM TRAFFIC.—Up to the present, forty of the States members of the League of Nations have brought the International Opium Convention into force. Germany, the United States and Russia have also signed the Convention. The League's system of import and export certificates provide that no licence to export dangerous drugs may be granted unless the application be accompanied by a certificate from the Government of the importing country. The Canadian Government reports the seizure of 442 lb. of morphine cubes, 117 lb. heroin, and 65 lb. cocaine forwarded under a false description, as "Cocoa powder," by an agent in Switzerland. Smuggling of narcotic drugs from Germany into Canada has also been going on indirectly via Spain-France-St. Pierre Miquelon, Newfoundland. Clandestine shipments of morphine through the port of Amoy are reported by the Chinese Government, the consignment being from Denmark. The Spanish Government has seized large quantities of opium at Barcelona. Cocaine was found in possession of a British crew at Trieste, having been brought aboard while the ship was anchored in the Greek port of Patras. In all the above-mentioned instances the Governments concerned have taken strict measures to prevent the recurrence of such malpractices.

Legal Reports

A Disputed Order.—In Shoreditch County Court, London, on May 4, S. Mitchel & Sons, 5 Massie Road, Hackney, sponge and chamois leather merchants, sued F. Jeans, Brockenhurst, to recover the sum of £2 14s. for goods supplied. Mr. Meyer, for the plaintiffs, said that Mr. Mitchel, sen., called on the defendant, on February 6, but did not get an order. Later, in the train, he met the defendant, who asked him if he could supply on approval, and on telling defendant that the firm never dealt that way, an order was given for two dozen sponges. They were kept by the defendant until March 10, when they were returned. The defence to the summons, however, was that the sponges were not ordered at all. Mr. Solomon Mitchel gave confirmatory evidence. The defendant said that the plaintiffs' evidence was absolutely false. As to the train incident, plaintiff told him he should send some sponges along to look at, which he did, but as they were so dear they were returned. He purchased two dozen sponges which he wanted, which cost 25s. 3d., whereas the two dozen from the defendant cost £2 11s. The registrar said that where there was such a conflict of evidence he was bound to depend on the delay of the defendant in returning them. With a certain amount of reluctance he accepted the evidence of the plaintiff against the defendant, and gave judgment for the amount claimed, and costs.

Dangerous Drugs Act Fines.—At Plymouth, recently, three chemists were summoned for contravention of the Dangerous Drugs Act, 1920. The prosecution alleged that during the past six months the defendants failed to register certain supplies of drugs purchased. The first case was that of Mr. E. L. Foster, Bank of England Place, who pleaded "Not guilty." Mr. J. L. Wolferstan, prosecuting, said that when the police visited the shop they ascertained that the purchase on December 28, 1922, of $\frac{1}{2}$ lb. of liquor morphinae hydrochloridi from Breeze's, Ltd., wholesale chemists, and a purchase of $\frac{1}{2}$ lb. on March 15 last, were not recorded in the register. Mr. E. R. Ward, for the defence, said his client had to admit that either he or his assistant had carelessly omitted to enter particulars of these two consignments. In the case of Mr. Thomas Henry Harris, the police found that at the shop of Netten & Co., Manor Street, for whom he was manager, purchases of $\frac{1}{2}$ lb. of vinum opii and $\frac{1}{2}$ lb. of tinctura opii were not recorded. Mr. E. E. Square defended, and pleaded for leniency, saying that the defendant only qualified in October, and this was his first appointment. He had forgotten to make the necessary entries. The third defendant was Mr. Walter Coad Hender, Laira Bridge Road, who obtained two separate $\frac{1}{2}$ lbs. of liquor pro tinctura camphorae composita without entering particulars. Mr. Square said he regarded it as extraordinary that the drug was in the schedule at all. It was bought in bulk in order that it might be diluted. It was never sold over the counter in the original form, which was just on the borderline, and would not be found in the sale-register, because when diluted it came just below the strength. The Mayor, who presided, said the Bench regretted to see gentlemen of such repute in the Court, and recognising that it was one of those things which happened occasionally, they felt it was not an offence which called for exemplary punishment. Mr. Wolferstan said there was no suggestion in any of the cases of illicit dealing in the drugs or of any unauthorised sale. A fine of £5, with £2 2s. costs, was imposed in each case.

Sale of Food and Drugs Act, 1875.—At Salford Police Court, on May 9, David Gouldman, Blackfriars Street, Salford, was summoned in three instances for supplying Liebig's beef and malt wine which was alleged to be not of the nature, substance and quality demanded. The proceedings were taken under section 6 of the Sale of Food and Drugs Act, 1875. Mr. H. H. Tomson appeared for the prosecution, and the defendant was represented by Mr. McCleary, barrister. Mr. Tomson said the defendant was the proprietor of the Liebig Standard Wine Co. Three bottles of Liebig's beef and malt wine

were purchased from his place of business on March 2 by the corporation food inspector. Three samples were submitted to the public analyst, who certified the preparation to contain:—Water, 75.63 per cent.; total sugar 21.80 per cent.; alcohol 1.50 per cent.; other extractive matter 1 per cent.; salicylic acid 0.07 per cent. The analyst stated in his observations:—"The 'other extractive matter' contains 0.01 per cent. of nitrogen (calculated on the original liquid), which indicates the possible presence of not more than 0.2 per cent. malt and beef extracts. This opinion is based on the fact that the mixture of equal parts of meat and malt extracts contains about 5 per cent. of nitrogen. This is not a beef and malt wine. Its composition is similar to that of flavoured cordial which usually contains up to 0.01 per cent. of nitrogen derived from sources other than beef or malt extracts. The amount of salicylic acid present is contrary to the declaratory label on the bottle; it is six times that suggested as a maximum by the Departmental Committee on the preservation of food, 1901, in respect of beverages." Mr. Tomson said a large label on each bottle was worded:—"Liebig's Beef and Malt Wine. Made with Liebig's extract of beef and malt extract. Health, Strength, Vigour. Non-excisable." A smaller label read:—"This beverage is prepared in accordance with the requirements of the Food and Drug Act, and contains a small quantity of salicylic acid as preservative." He went on to say that the public analyst's certificate simply meant that of the preparative one-thousandth part was beef and one-thousandth part malt, the remainder being sugar and water. Unfortunately, he said, there was a market for this class of article, particularly among people who were recovering from illness, and could not afford to go away for change of air. There was a ready sale for what was supposed to be tonics in the form of beef and malt wine. The retail price of this preparation was 5s. a bottle, and he was instructed that if sold for ninepence, including the bottle, there would be an ample margin of profit. The prosecution contended that it did not possess any real food value. The Magistrate: It must have some food value, because it contains sugar. Mr. Tomson: This is its sole value. W. S. Bowker, food inspector, said that after the bottles had been purchased he had an interview with the defendant, who said that the preparation was "all right." Witness told him that previous samples had not been all right, and when asked in what way, he told the defendant that the amount of beef and malt had been very small, and that therefore it was not correct to call it a beef and malt wine. The defendant replied: "We do not say how much beef and malt there is in." After further conversation witness mentioned to him that one of the bottles he had opened had fermented rather badly, and the defendant remarked he "could easily alter that." Witness retorted, "You by putting more salicylic acid in," and he told him that already there was more in than there should be. As a matter of fact that sample was excisable, there being more than two per cent. of alcohol, which had no doubt been generated spontaneously by the sugar. Mr. G. Elsdon, B.Sc., after testifying to the correctness of the certificate, was asked if he would define what a wine was. He replied, "A wine should be the fermented juice of the grape." Mr. McCleary: Then ginger wine is not genuine wine?—No. There is a considerable quantity of liquor sold as ginger wine?—Yes, but it is not genuine wine, in the true sense. Mr. S. E. Melling, public analyst for the County of Chester, said he had analysed a sample of the wine, and his analysis confirmed that of Mr. Elsdon. He would not call the preparation a beef and malt wine. Mr. McCleary: What is it you find fault with?—The deficiency of beef and malt constituents. What percentage of beef and malt would you say would constitute a beef and malt wine? I should say something equal to at least five times more than there is in this preparation. Dr. E. N. Ramsbottom expressed the opinion that "as a beef and malt wine this preparation is worthless." For the defence, Mr. McCleary said the point the prosecution seemed to make was that there was so small a quantity of beef and malt in the preparation that it could not be described as

beef and malt wine. If there was no beef and malt in it, of course it would not be of the substance demanded, but that there was some was pretty well admitted. It therefore became a question as to quantity. There were two wines made by the defendant, an alcoholic and a non-excisable preparation. The Stipendiary: The mistake you have made is that it is excisable. Mr. McCleary: If made as a non-excisable preparation there is a limit to alcohol. Continuing, he said the amount of beef and malt in this wine was the maximum that could be placed in with less than two per cent. of alcohol and with the quantity of salicylic acid that could be put in with safety, and even with that amount of salicylic acid and beef and malt extract, there was the danger of fermentation blowing the corks out. The Stipendiary: That does not affect me. I have in mind the words "Beef and malt wine." In the witness-box, the defendant said he had been manufacturing the alcoholic and non-alcoholic wines for some fifteen years. He had frequently tried to increase the quantity of beef and malt extract, but unsuccessfully, because as soon as the attempt was made fermentation set up. Mr. A. A. Agstaffe, analytical chemist, said the formula from which the preparation was made contained ingredients of a beneficial kind and of a certain tonic value. Dr. Ireland said that as a non-alcoholic wine he should say was fairly beneficial, but not so beneficial as a standard preparation which contained more alcohol. The stipendiary, describing it as a bad case, imposed a fine of £20 in each of the three cases, also allowing £10 10s. costs.

Dispensing Tested

At Clerkenwell Police Court, London, on May 2, Mr. Hugh Lloyd, chemist and druggist, 260 Upper Street, Islington, was summoned for selling by his servant, on January 26, to Ella Medcalf, agent of Gilbert S. Green, inspector of the Islington Borough Council, to the prejudice of the purchaser, a prescription deficient in potassium bromide to the extent of 12.4 per cent., and in spt. ammon. arom. to the extent of 4.5 per cent. Mr. Bramall prosecuted, and Mr. Hildreth Glyn-Jones, barrister, defended.

The prescription was as follows:—

Potass. brom.	...	...	...	5ij.
Spt. amm. ar.	...	...	...	5iv.
Tr. nuc. vom.	...	...	...	5j.
Inf. gent.	...	...	ad	5vj.

One tablespoonful to be taken in a wineglass of water, morning, afternoon and at bedtime.

Mr. Bramall said that the summons against the defendant involved an alleged irregularity in dispensing medicine, and it was a test case. The prescription in question was for a patient suffering from insomnia and nervousness, and having been made up by defendant it was on analysis by the Islington public analyst found to be deficient to the extent of 12.4 per cent. in potassium bromide and to the extent of 4.5 per cent. in spirits of ammonia. His contention was that the patient would have suffered direct harm by reason of this deficiency. It might lead to a doctor being misled and his future treatment of the patient would be based on false premises.

Mr. Gilbert Green, inspector in the employ of the Islington Borough Council, gave evidence as to having the prescription made up by the defendant. The medicine was afterwards analysed by the public analyst, and he produced his certificate showing the deficiency as set forth in the summons. In cross-examination, witness said he did not measure the total quantity contained in the bottle, which was an ordinary medicine bottle in twelve divisions.

Dr. Clark Trotter, the Islington Borough Council medical officer, who was next called, said that he wrote the prescription produced. It was for nervousness, sleeplessness and slight headache. He should regard the deficiency shown as serious, as he prescribed a very small dose, and the patient would not have received the same benefit from the medicine as if there was no deficiency. If the medicine did not have a certain effect, owing to the deficiency, the doctor might suppose he was mistaken in his diagnosis. The following is the cross-examination of this witness by Mr. Glyn-Jones:—

Q. You intended the patient to have 12 doses, did you not?—Yes.

Q. Each containing 10 grains potassium bromide, 20 minims spt. ammon. arom., 5 minims tincture nux vomica and infusion of gentian to ½ oz.?—Yes.

Q. Do you regard the gentian as of any importance?—It is a slight tonic.

Q. Would a 5 per cent. variation in gentian make any difference to your diagnosis?—No.

Q. Is the quantity of water of any importance?—Yes, I want the mixture to be of the exact strength.

Q. You have yourself prescribed that the dose is to be taken in a wineglassful of water. If your patient gets the proper quantity of the potent drugs, does it matter whether the actual dose measures ½ an oz. or not?—No, so long as he gets his proper dose.

Q. Does the average patient use a graduated measure?—Yes. Chemists are ready enough to sell graduated measures.

The analyst has interpreted this script as follows:—

Potassium bromide: 4.57 parts in 100 fluid parts.
Aromatic spirit of ammonia: 8.53 fluid parts in 100 fluid parts.

Tincture of nux vomica: 2.03 parts in 100 fluid parts.
Infusion of gentian: 85.02 fluid parts in 100 fluid parts.

Is that correct?—Yes.

Q. Just now you said that you attached no importance from the medicinal point of view to the exact quantity of gentian?—A little more or less does not matter.

Bankruptcy Reports

Re Ernest Evan Hemming, 36 St. Helens Road, Swansea, drug-store proprietor.—The public examination of this debtor was held on April 27. According to the statement of affairs, the gross liabilities amounted to £732 0s. 10d., and there was a deficiency of £480 3s. 10d. Debtor stated that he had been in business at Neath for twenty years an unqualified chemist, but in May 1922, owing to competition and a breakdown in health, he sold the business. His venture as a turf accountant was unsuccessful. In January 1923, he recommenced business at Swansea and £50 borrowed from his wife. The examination was held.

Re W. W. Coe, jun., late of 24-26 Holborn, London, chemical manufacturer.—The first meeting of creditors was held on May 1 at the London Bankruptcy Court. The proceedings were instituted on the petition of a creditor claiming £131. The Official Receiver reported that an inspector had attended at the above address and was informed that the debtor was now in New York; that his father formerly carried on business there, but it had been converted into a limited company, in which the debtor had no interest. Mr. Ernest Jones, St. Lawrence House, Trump Street, E.C., was appointed trustee to administer the estate.

Re Sangley's Drug Stores (Ed. Cranston, trading as), 3 Sangley Road, Catford.—An application arising out of his failure (*C. & D.*, April 14, p. 506) came before Mr. Justice Astbury as Bankruptcy Judge in the Chancery Division of the High Court, on May 7. Mr. E. W. Fell, on behalf of Mr. Parkin Stanley Booth, trustee under the bankruptcy, asked for an order against Mr. E. Carey Gratton, trustee under a deed of assignment executed on November 28, 1922, to pay over all moneys, goods and property that had come into his hands as trustee under the said deed. Counsel said that letters had been sent to the respondent, asking him to hand over a specific sum of £49 and specific goods valued at £5 s. 11d., known to be in his hands, all other property of the bankrupt that might be in his possession, and the lease of the premises. No reply had been received to the letters, and the respondent was not represented that day. His lordship made an order in those terms, with costs.

The "Matin" now publishes, in an abridged form, the programmes of the British broadcasting stations.

I suggest to you that the following interpretation is equally correct:

Potassium bromide ... 2 drams.
Spt. ammon. aromat. ... 4 drams.
Tincture nux vomica ... 1 dram.

Infusion gentian... sufficient with the above ingredients to fill an ordinary 6-oz. dispensing bottle?—I don't agree; the bottle must hold exactly 6 oz.

You mean that the chemist should measure the total volume?—Yes.

What sort of measure should he use to do it?—A Government stamped measure.

To what degree of accuracy is it possible to use a Government stamped measure?—In 6 oz. I should allow a 2 per cent. variation.

Then there might have been a 2 per cent. variation in the ammonia; would you have complained?—I should not have made a fuss.

Can you detect the therapeutic effect upon your patient of a 2 per cent. variation in the ammonia content of a mixture?—No.

Three per cent.?—No.

4.5 per cent.?—Yes, possibly.

Now as to the potassium bromide. Can you detect the difference between the therapeutic effect upon your patient of a full dose as compared with a dose $12\frac{1}{2}$ per cent. less?—Yes.

10 per cent. less?—Yes.

Do you mean that if you prescribed 10 grains and the patient took 9, you might detect the difference in the therapeutic effect and be misled thereby?—It depends upon the patient.

Re-examined, the witness said that no proceedings would have been taken if the error had not exceeded five per cent. In actual fact the Borough Council had not prosecuted in any case in which the deficiency was less than eight per cent.

Dr. Frank Teed, public analyst, gave evidence in regard to his analysis of the medicine and to finding a deficiency. He stated that the British Pharmacopœia allowed a variation in the purity of potassium bromide which reduced the deficiency to a possible 9.4 per cent. if the lowest quantity of potassium bromide conforming to the B.P. standard had been used.

The Magistrate (interposing): What is the defence?

Mr. Glyn-Jones: I do not admit any deficiency at all; I shall contend that the chemist's duty is to dispense medicines so that the patient gets in a convenient form the dose the doctor intended him to have, and if in fact that is so there can be no offence. I shall submit that the prosecution has not proved that the patient did not get his proper dose. Further, I shall rely on the fact that the chemist can only dispense within the limits of accuracy allowed by his apparatus.

Dr. Teed, cross-examined, said ammonia is a volatile substance. He did not think a material quantity of ammonia could have been lost owing to its volatility. The increased deficiency shown by the Government analyst who reported a 5.4 per cent. deficiency a month later might be due to loss of ammonia. Although the nux vomica was the most powerful drug in the prescription there was no complaint in regard to it. An analyst's balance was twenty or thirty times more sensitive than a chemist's. A one per cent. variation between analyst's figures was not unreasonable; chemists should get within two or three per cent. In practice he found the chemists very accurate. He considered that eight per cent. was an excessive margin of error. Witness agreed that he could not tell what was the actual weight of potassium bromide supplied. His figures were based on the assumption that exactly 6 oz. of the mixture was supplied. In his certificate he spoke of chemically pure potassium bromide, while what the prescription demanded was the potassium bromide of the British Pharmacopœia, a different article. If the mixture had contained two teaspoonfuls of infusion of gentian in excess of the 6 oz. the deficiency would have been reduced from 9.4 to 5 per cent.

THE DEFENCE

Mr. Philip Hamill, M.D. (Camb.), D.Sc. (London), F.R.C.P., D.Ph., 74 Harley Street, London, lecturer in pharmacology and therapeutics at St. Bartholomew's Hospital Medical College, examiner in pharmacology London University and the Conjoint Board, physician to

the Metropolitan Hospital, was called for the defence. He said that he knew that it was the practice of chemists to place the prescribed ingredients in an ordinary dispensing bottle, and to fill the bottle with water or with whatever diluent was ordered. He recognised that practice, and if the patient took the appropriate part for a dose, in this case a twelfth of the bottle, he got the full quantity of the drug ordered. He did not agree that the difference in therapeutic effect between nine and ten grains of potassium bromide could be recognised. Ten grains was a convenient dispensing unit, but there was no reason for prescribing ten rather than 9 or 11 grains. As regards the deficiency of ammonia, he would certainly be unable to detect its effect. In his experience the patient usually measure his dose by the graduation on the bottle. Cross-examined, witness said that the chemist, if making up 6 oz., should measure the volume. If he were using a graduated bottle it was preferable to fill the bottle right up. In reply to the magistrate, he said he did not recognise the difference, even if it existed, a material; he would allow a 10 per cent. margin in the case of bromides. The deficiency in ammonia was negligible. The doctor was entitled to have his medicine properly and accurately dispensed, and he recognised and accepted the method of filling the bottle which had been described. Re-examined, Dr. Hamill said that if the medicine were made up in the manner described the analyst's certificate was no evidence of deficiency in the dose actually taken by the patient.

Mr. G. E. Beaumont, M.D., F.R.C.P., D.Ph. (London), 24 Wimpole Street, London, assistant physician to the Middlesex Hospital and to the Brompton Hospital, lecturer on practical medicine at the Middlesex Hospital, medical specialist to the Ministry of Pensions, the next witness, agreed with the evidence of Dr. Hamill. He said that he made allowances in prescribing for what was the ordinary practice of dispensing. In his opinion, this practice made not the slightest difference to the patient. He agreed that he would not be able to detect the therapeutic effect on a normal patient of the variation complained of.

Dr. W. G. Stone, M.D., Oxford, F.R.C.S., in general practice at Hillside, Denmark Hill, said that he was quite satisfied if his prescriptions were dispensed in the manner prescribed. The difference in the therapeutic effect of 9 as compared with 10 grains of potassium bromide was not capable of detection.

Mr. J. Langford Moore, F.R.C.S., chemist and druggist head pharmacist to St. Bartholomew's Hospital, a teacher of pharmacy at the Medical School of Bartholomew's Hospital, said that he was in charge of eleven pharmacists who dispensed an average of thousand prescriptions a day. In using graduated bottles it is their practice, in the case of any drug other than the most potent and dangerous substance to weight out the correct quantity of the ingredients and to fill up the bottle with the diluents. He regarded this practice as quite sound. The limit of accuracy the chemist's balance was $\frac{1}{4}$ grain, and in his opinion the limit of accuracy in measuring fluids was 5 per cent.

Without calling on counsel, the magistrate said that on broad grounds, and having heard what the distinguished witnesses called for the defence had said, he thought it was not a case in which it would be fair to convict. The summonses would be dismissed.

In reply to Mr. Glyn-Jones, who applied for costs the magistrate said that he was very reluctant to grant costs against a public authority in the execution of duty, and he asked that the point should not be pressed.

Other Cases

At Old Street Police Court, London, on May 8, A. P. Barnard, chemist and druggist (trading as A. Barnard & Son), 309 Hackney Road, E.1, was summoned for having sold at 52 Bishops Road, E., mixture of salicylates of the London Insurance Pharmacopœia, containing 6.8 gr. of sodium salicylate in each $\frac{1}{2}$ oz. instead of the prescribed quantity of 10 gr. Mr. Hornby, prosecuting, said that was the first prosecution of the kind at that court. In that particular case the prescription

ce was 1s. 4d., and inasmuch as, according to their reputation, the cost of the bottle, label and cork would be more than 4d., the least the customer could expect was strict accuracy in dispensing. There had been previous prosecution against the defendant for selling tincture of iodine in December 1920, and he was ordered to pay £2 2s. costs. Mr. H. Glyn-Jones, prisoner, defending, said it was true he could not deny the offence had been committed, and he had pleaded guilty." Mr. Barnard, with the assistance of his son, carried on the business for something over fifty years. It happened was that tincture of iodine was asked for a weaker tincture of iodine was supplied, and the defendant was charged with the weaker tincture. In regard to accurate dispensing—The Magistrate: The Borough Council have only taken up this matter very recently.

Glyn-Jones: I think that is so, but dispensing only one of the many things that can be sampled. The Magistrate: The counsel stated that what happened was that a mixture was dispensed by a qualified assistant, six years in the defendant's employ, and having had many years' experience before that, and that while he was preparing the medicine he was called away. With regard to the shortage represented a small fraction of a penny. He submitted that there was no question of a fraudulent or dishonest trader. He did not think the defendant would cheat the public by employing cheap labour or supplying poor goods. The magistrate said he accepted counsel's statement, and thought the truth of the case was borne out by the fact that, however small a man's business was, he would hardly be so foolish for so small a fraction of a penny as to sell the wrong article. He thought it was an accident, but those accidents must not recur, and there must be a fine of £3 and £3 3s. costs.

In the same court, Mr. F. B. Elwell, Ph.C., 5A Coverdale Street, E., was summoned for having sold tinctura sodii salicylatis containing 12½ gr. of sodium salicylate in each ½ oz., instead of 10 gr. Mr. Glyn-Jones, defending, said that in a busy pharmacy a measure such as that was kept in the form of a stock bottle, which was brought to the required strength by the addition of water. The defendant might have tilted the measure at a slight angle. As to the results, it might follow an overdose, that point did not arise in the present instance, because 10 gr. was the minimum, and, according to the British Pharmacopœia, the quantity might be from 10 gr. to 30 gr. The magistrate said it was perfectly clear that defendant was not doing to make a larger profit. It was obviously a mistake on defendant's part. The defendant no doubt knew that the dose was between 10 gr. and 30 gr., and 2½ gr. would not make any difference whatever. Under the circumstances it was unnecessary to proceed to a conviction. The summons would be dismissed on payment of 3s. costs.

New Companies and Company News

MEANS PRIVATE COMPANY AND R.O. REGISTERED OFFICE
GLEGG & CO., LTD. (P.C.).—Capital £4,000. Objects: To acquire the business of a manufacturing chemist, now carried on by J. W. Clegg at 2 Bridge Street, Castle-as "Clegg & Co." The permanent directors are J. Clegg and Mabel Clegg, 18 Wesley Street, Castle-

KINGSLAND CASH CHEMISTS, LTD. (P.C.).—Capital £10,000. Objects: To acquire the business carried on by J. O. at 253 Kingsland Road, E., and to carry on the business of chemists, druggists, drysalter, oil and men, etc. The first directors are C. Gaskin and Marston. R.O., 253 Kingsland Road, London. E.

HOSPITAL CONTRACTS CO., LTD. (P.C.).—Capital £300. Objects: To acquire the business of druggists carried on by Cory Brothers (Surgical Instrument Makers), Ltd., to carry on the business of chemists, druggists, medical chemists, dispensers, etc. The permanent directors are R. F. Dennis and H. Rose. R.O., 27-35 Finner Street, London, W.

MODERN MEDICINE, LTD. (P.C.).—Capital £21,000. Objects: To adopt an agreement with S. Reilly, and to carry on the business of manufacturers of and dealers in food preparations, medicines and drugs, surgical and scientific apparatus and material, chemists, druggists, etc. The first directors are A. Weinstein, S. G. Reilly and H. H. Coward. R.O., 51 Fenchurch Street, London, E.C.

S. H. CLAYTON, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of chemists, druggists, opticians, drysalter, oil and colourmen, importers, and manufacturers of and dealers in medicines, pharmaceutical, medicinal, industrial and other preparations, drugs, mineral waters, wines, cordials, liqueurs, soups, broths and other restoratives or foods for invalids and convalescents, etc. The first directors are S. H. Clayton and R. Rowlett. R.O.: 13-16 Corridor Chambers, Market Place, Leicester.

G. COVERDALE'S SONS, LTD. (P.C.).—Capital £6,000. Objects: To adopt an agreement with G. H. Coverdale and G. A. Coverdale, and to carry on the business of chemists as formerly carried on by the late G. Coverdale and later by his executors, at 19, 20 and 24 Parliament Street, 7 Gillygate, and 66 Clarence Street, York, as "Coverdale & Sons," and that of pharmacists, druggists, opticians, purveyors of toilet requisites and photographic supplies, etc. The first directors are G. H. Coverdale, G. A. Coverdale, A. H. Barron and H. N. Coverdale. R.O., 19 and 20 Parliament Street, York.

BENGER'S FOOD, LTD.—The profit for the year to March 31 was £54,178, plus £7,508 brought in, making £61,686. The directors have transferred to advertising and extension of business account £2,500, to reserve £7,600. A further dividend of 1s. 3d. per share, free tax, on ordinary, making 2s. per share for year, is declared.

MAGADI SODA CO., LTD.—The Board have issued a circular stating that, whilst efforts were being made to secure the provision of fresh capital, it was found that the funds at their disposal would not provide for the payment of the debenture interest due on April 1. A receiver was therefore appointed to protect the interests of the debenture holders. The Board now announce that they have under consideration a scheme of reconstruction which will be submitted when complete, and they hope it will enable the business to be continued on a satisfactory basis.

BOOTS PURE DRUG CO.—The report for the year ended March 31, 1922, was sent out for the first time to the whole of the shareholders on May 8. The report, which is published in full in the "Financial Times" (May 9), together with editorial comment, is as follows:—

The gross profit earned amounted to £753,000, from which has to be deducted £59,800 for repairs and renewals, £36,900 for depreciation, £20,000 for staff pension fund, £34,000 for corporation profits tax and balance of income-tax, and £6,500 for stamp duty on increase of capital, leaving a net profit of £595,800. The preference and preferred ordinary dividends absorb £95,700 and the ordinary dividend £360,000. There then remains £139,100 to be added to surplus account. Prior to March 31, 1920, certain reserves were made against stocks both in this and the subsidiary companies, in order to safeguard against the fall in prices which was bound to come. Fortunately the directors have not had to use all these reserves, and as they do not consider there is any further necessity for them they have written them back to their respective surplus accounts. In this company the unused amount was £148,200. Bonus dividends of ordinary shares have been declared out of their surplus accounts by two of the subsidiary companies—Boots Cash Chemists (Western) £153,000, and Boots Cash Chemists (Southern) £110,000. The directors are of the opinion that these shares are worth more than par value, and the nominal amount of the shares has been added to surplus account accordingly. On the balance-sheet of the company at March 31, 1922, the amount of £45,100 was standing as goodwill, and the directors have decided to write this off out of surplus. The above adjustments bring the amount standing to the credit of surplus account to £1,304,000, to which must be added the undivided profits for the past year, £139,100, leaving a balance to be carried forward of £1,443,100. The authorised

share capital has been increased by £650,000 to a total of £2,400,000. Under resolution of the company passed March 31, 1923, the 900,000 unissued ordinary shares will be paid up in full by the appropriation of £900,000 from the surplus account and distributed among the holders of the 100,000 issued ordinary shares.

The outstanding feature of the report (says the "Financial Times"), apart from the exceedingly good trading results recorded, are the details of capital reorganisation. The old ordinary shares were of £100 denomination, and these have been split into £1 scrip, and the total amount raised from £100,000, at which it has stood since 1919, to £1,000,000, by funding undivided profits to the extent of £900,000. This will make the aggregate capital, both authorised and issued, £2,400,000. There are three classes of preference shares, one bearing 7 per cent. cumulative and the other two 6 per cent. cumulative interest, and four classes of preferred ordinary shares, all carrying 7 per cent. non-cumulative interest. Two classes of preference capital were formerly also of £100 denomination, but now only one remains: the other classes, and all the preferred ordinary, are of the usual £1 type. The bonus ordinary shares will practically all be allotted to Liggett's International, as owner of the great bulk of the existing ordinary capital. The profits of Boot's Pure Drug Co. have always been substantial in relation to the capital employed, and have steadily increased, with very few fluctuations. The details given from time to time in the prospectuses show roughly that they were about £8,500 in 1895-6, and they virtually doubled themselves every five years up to the outbreak of war. The new report gives the figures for the past season, and supplies the corresponding details for the rest of the decade:—

Year ended Mar. 31	Net profit	Ord. div.	Carry forward	Stocks	Reserve account
	£	%	£	£	£
1914 ..	87,900	27½	55,000	517,800	231,200
1915 ..	90,400	20	55,500	468,000	255,300
1916 ..	102,300	27½	59,100	689,400	268,800
1917 ..	72,700	27½	63,200	848,300	250,500
1918 ..	110,700	27½	71,200	1,043,400	265,600
1919 ..	118,100	27½	73,100	1,254,600	282,700
1920 ..	210,500	27½	167,300	1,618,500	357,300
1921 ..	349,400	156	265,700	1,416,100	645,100
1922 ..	431,000	244½	355,900	1,128,800	582,400
1923 ..	595,800	360*	494,600	974,800	948,500

* Less tax.

Society of Public Analysts

At a meeting of the Society of Public Analysts, held on April 4, a paper was read on *Physiological Standardisation*, by Dr. Stanley White. A number of drugs, including digitalis, ergot and cannabis indica, was dealt with, and a method described of arriving at the minimum lethal dose on frogs, and so establishing a heart tonic unit. The standardisation of pituitrin was discussed, and physiological methods for determining the presence of the three vitamins. The paper was illustrated by numerous slides. *The Estimation of Boric Acid in Liquid Eggs and other Foodstuffs*, was described by Dr. G. W. Monier-Williams. The author drew attention to the irregular results sometimes obtained with Thompson's method, owing to loss of boric acid by precipitation as calcium borate during the removal of phosphates. A method was described in which phosphoric acid is removed by precipitation as magnesium ammonium phosphate, the subsequent titration of the boric acid being carried out by Thompson's method. A paper on *An Investigation into the Chemistry of the Reinsch Test for Arsenic and Antimony, and its Extension to Bismuth*, was described by B. S. Evans. A summary of the literature relating to the reaction was given, and a method described for determining the velocity of the reaction. A number of curves were also given, showing the influence on the reaction velocity of varying chloride, acid strength or arsenic (antimony), etc., and the effect of adding cupric or cuprous salts. The products of the reaction are: For arsenic, the compound Cu_3As_2 ; for bismuth, the

element bismuth; for antimony, the compound Cu_3Sb followed by deposition of the element antimony. In all cases cuprous chloride goes into solution. An attempt was made to elucidate the mechanism of the reaction and a number of experiments described, leading to the conclusion that it is due to reduction of the arsenic (or antimony, etc.) by a film of hydrogen on the surface of the copper. Under certain given conditions the test used qualitatively can be made sensitive to less than 0.01 mgrm. per 100 c.c. It is suggested that a determination of the reaction velocity carried out in any doubtful liquid will readily show whether any substance is present which would interfere with the test.

At a meeting held on May 2, a paper was read on *The Quantitative Determination of Hemp and Wood in Paper* by William Dickson, F.I.C. In the microscopical determination of hemp fibres in the presence of wood, examination alternately by ordinary and polarised light enables one to distinguish the microstructure of the different fibres. He has devised a method for quantitative work utilising the counting method of Spence and Krauss ("World's Paper Trade Review," December 18, 1917). The paper is disintegrated by boiling with caustic soda and the pulp churned up with an egg-switch. The fibre is then stamped by Cross and Bevan's double malachite green and congo red method, well spread out on the cover slip and mounted in the usual way. The counting is done by Spencer and Krauss's method, but no correction factor is required to convert proportions by diameter counting into proportions by dry weight of furnish. *The Estimation of Fat, Lactose and Moisture in Dried Milks* was described by H. Jephcott, M.Sc., F.I.C. As a result of examining over 25,000 samples of dried milk it is contended that (1) moisture is best determined by drying at 102-103° C. for one to two hours. (2) Fat can most satisfactorily be determined by a careful use of the Werner-Schmidt method. A modified Gerber method gives less accurate but concordant results for rough routine purposes. (3) The polarimetric determination of lactose in milk powders, whilst offering certain advantages, should not be used where great accuracy is desired. In such cases a gravimetric process, based upon the modified Fehling's method of Quisumbing and Thomas, is recommended. A. L. Bacharach gave a paper on *The Determination of Lactose by the Polarimetric and Gravimetric Method*. Pure α -lactose mono-hydrate was prepared by careful recrystallisation and drying. It was shown to have the value for $[\alpha]_D^{20}$ of 52.42, agreeing with the most trustworthy

recorded figure. The reducing power of pure α -lactose mono-hydrate was also determined by the modification of the Fehling method due to Quisumbing and Thomas. The accuracy of this method claimed by these authors was confirmed, but the reducing power obtained was somewhat higher, 0.1000 gm. of lactose hydrate giving 0.1565 gm. of cupric oxide. The next paper was on *The Melting Point and Iodine Value of Refined Natural D Camphor*, by Maurice S. Salamon, B.Sc. It was shown that the usually accepted iodine value of refined natural D camphor is too high, and that the usually published melting point is too low. The iodine value of the specially refined d-camphor is found to be 0.1, and the melting point 179° C. The iodine value of oil of camphor was also redetermined. Refined d-camphor for pharmaceutical purposes should have a melting point not lower than 176° C. and an iodine value of not more than 0.7. A paper on *The Presence of Barium and Strontium in Natural Brines* was given by A. G. Francis, B.Sc., F.I.C. The results of the analysis of seven samples of brines from deep boreholes in Derbyshire, Staffordshire and Scotland were recorded, together with a brief account of the method of analysis adopted. The maximum quantities of barium and strontium chlorides found were 178.2 and 169.4 parts per 100,000 respectively. An explanation based upon the "permutit" reaction was put forward to account for the presence of the chlorides of barium and strontium in natural brines, and it is shown that there is a gradation in the strengths of sodium chloride solutions necessary completely to remove calcium, strontium and barium from a "permutit" filter charged with these elements.

Pharmaceutical Botany

VI. Fucus

THE Bladder wrack *Fucus vesiculosus*, Linné, is a member of the Brown Algæ, and is quite common on our coasts between high and low water. This family of seaweeds has developed a brown colouring matter (which hides the green chlorophyll also present) in adaptation to a submerged habit. When white light passes into water the blue rays are the first to be absorbed so that transmitted light becomes more and more green in lower depths. Some plants of the blue green algæ (*Oscillatoria*) can change colour according to the depth at which they are kept, becoming brown and red (at the lowest light limit). The brown colour developed is that which absorbs the light transmitted. It is evident that the colour of *Fucus* is an advantage when it is submerged. The forked flattened thallus (exposed at low water) can be seen to be attached to the rocks by a rounded stem ending in a disc-like holdfast. The thallus, which may be over two feet in length, shows differentiation into a midrib with thin lateral wings (worn off in lower regions). The wings or floats (usually in pairs in this species) to keep plant erect when submerged. *Fucus* in adaptation to its special habitat shows a complexity of vegetative structure comparable to that of higher plants. The cells composing the thallus are differentiated into an external assimilatory



FIG. 15.—*Fucus vesiculosus*
a, air-bladder. f, fertile branch. s, sieve plates (highly magnified).

layer, and internal conducting tissue of interwoven elongated cells (fig. 16). The latter often possess sieve plates (fig. 15s), a feature of the higher flowering plants. Cells of the stem may thicken and become purely mechanical in function. The walls of all the cells are gelatinous, which makes the plant pliant when submerged, and prevents drying up when exposed. Should the plant become damaged by sea waves the injured portion can grow a new part, while the detached portion often becomes attached and forms a new plant. The central rib resists strains which would tear the thin wings, the combination corresponding in function to the stem and leaf of higher plant. Each branch of the thallus contains a growing point in a depression (for protection) at its tip. The group of initial cells forming this differentiates into two new growing points when branching occurs and thus accounts for the curious forking (or dichotomy) of the thallus.

Fucus is also highly specialised in its method of reproduction, which is by the sexual method only. Some of the branches become swollen at the ends. A section of a

fertile branch of a "female" plant is shown in fig. 16(1). Each female organ or oogonium arises from a single cell, and produces eight oospheres or egg cells, which are liberated with rising tide. Fig 16 (2), (3) and (4). Other "male" plants produce club-shaped "antheridia," or male organs, each containing 64 spermatozooids. (Fig. 17.)

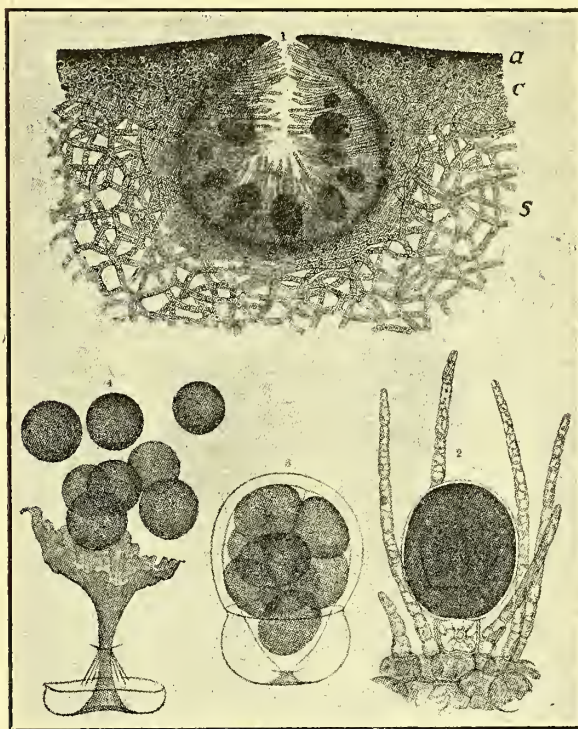


FIG. 16.—*Fucus vesiculosus*

1. a, Vertical section through female conceptacle, showing also external assimilatory layer of closely compacted cells and internal elongated cells with open structure (magnified 40 times). 2. Single oogonium from the conceptacle surrounded by sterile hairs. 3. Detached oogonium containing 8 egg-cells, inner lamella of wall much swollen. 4. Liberation of egg-cells. (2, 3 and 4 magnified 150 times.) (After Thuret.)

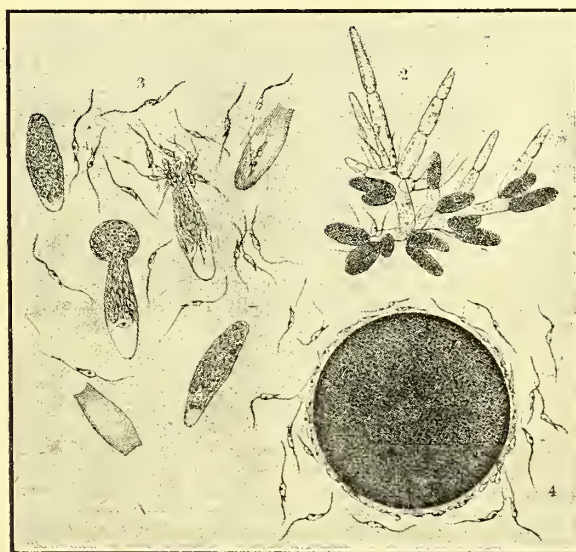


FIG. 17.—*Fucus vesiculosus*

2. Portion of one of the branched hairs bearing antheridia. 3. Spermatozooids escaping from the antheridia. 4. Spherical egg-cells spermatozooids. (2 magnified 150 times; 3 and 4, 300 times.)

Thus this species of *Fucus* is dioecious (di=two, œcion=house), but in others antheridia and oogonia may be present in same "conceptacle" (monœcious). The illustrations show fully the details of the sexual organs. Note that both male and female gametes are set free and cross fertilisation occurs outside parent plants. (Fig. 17 (4).) The oospheres are enormous in size compared with the spermatozooids; the former having a store of food material to feed the germinating egg or oospore, which develops without any period of quiescence. A consequence of the sexual process is a doubling of the "chromosome" number. *Fucus* is a curiosity in this respect in that the vegetative plant has the double (or diploid) number of chromosomes in its ordinary cell division. However, a "reduction" division occurs during formation of spermatozooids and oospheres which contain only the gamete (haploid) number of chromosomes (fig. 18 (3).) On fertilisation the egg possesses a diploid nucleus (fig. 18 (4).) Most plants intercalate a stage between the doubling and halving of the chromosome number, so that an alteration of generations ensues, a sporophyte or asexual generation with diploid nuclei and a gametophyte or sexual generation with haploid nuclei. There is reason to believe that the chromosomes transmit hereditary characters. The only reason for entering into these minute of nuclear division is that it is otherwise

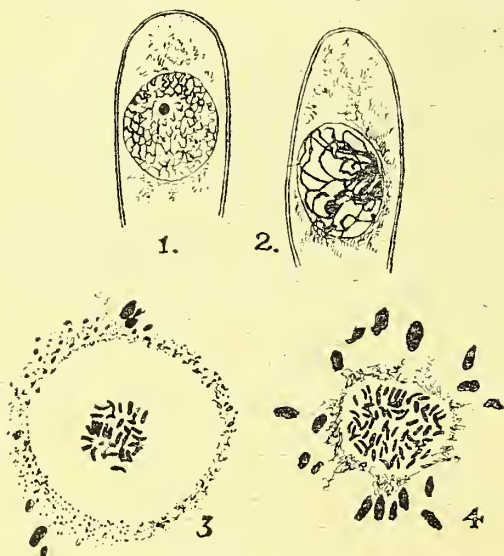


FIG. 18.—*Fucus vesiculosus*.

1. Resting nucleus of initial cell of antheridium. Nucleus showing chromatin network. 2. Ditto, showing spirem stage. 3. Last division of nucleus of oosphere, showing 32 chromosomes. 4. First division of fertilised egg (oospore), showing 64 chromosomes.

difficult to tell where the two different generations begin and end. All plants other than thallophyta show two distinct generations in their life cycle:—A gamete producing or gametophyte generation with evident thalloid character adapted to life (and fertilisation) in water and a spore bearing or sporophyte generation evolved from existence on dry land.

The necessity for retaining clear ideas as regards alternation of generations will become evident when our studies reach land flora proper. Mosses, ferns, and flowering plants originated as (sporophytic) appendages of gametophytes. In flowering plants adaptation to land existence has reached the stage where the situation has become reversed, the gametophyte generation being dependent, and indeed almost reduced out of existence.

THE BOEMI KASSO CINCHONA CULTIVATION Co. collected during the past year 99,104 kilos. of bark, representing a total of 4,276 kilos. of quinine sulphate, of which 1,946 kilos. were sold, valued at fl. 36,280. The company made a profit of fl. 33,608, of which fl. 25,000 were appropriated to pay a dividend of 10 per cent.

Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (1s. each including postage) of British patents can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Valve for Feeding Bottle.—A device in the form of a plug of soft rubber, which is polyhedral in shape, with or without one or more slits or grooves. (J. J. Pilley. 195,504.)

Hair Lotion.—A lotion made by boiling one pound of cloves, one quarter-pound of chamomile flowers and twelve pints of water until reduced to six pints of liquid (C. P. Ortegat. 195,830.)

Resolving Water-in-Oil Emulsions.—A process which consists in treating the emulsion with a non-metal colloid adapted for coalescing water dispersed in the oil. (The Sharples Speciality Co. 195,876.)

Fertilisers.—A process of preparing fertilisers which consists in colloidalising the material mechanically in the presence of a large quantity of water by the aid of a water-soluble silicate. (Plauson's (Parent Co.), Ltd. 195,655.)

Depilatory.—A mixture containing resorcin, 1 part glycerin, 50 parts; distilled water, 100 parts. A piece of cotton moistened with the mixture is applied to the skin, which is then rubbed with a piece of pumice stone (P. Kaizer. 195,730.)

Bacillus Felsineus.—A process for preparing bacillus felsineus cultures consisting in using recipients containing hemp cut into pieces, placed in water and sterilised, and the mixture brought into contact with the *saccharomyces ellipsoideus*, cultivated separately, for example, in a decoction. (Istituto Sieroterapico Milanese and Domenio Carbone. 183,671.)

Concentrating Liquids.—A method of evaporating liquids which consists in mechanically subjecting the liquid to a centrifugal motion on the interior of an externally-heated cylinder, characterised in that the vapours are removed at the axis of the applied force and at a plurality of different points in the length of the cylinder. (E. Zahm. 195,710.)

Receptacle for Powders.—A tubular three-part receptacle for powders, especially adapted for nasal inhalation, provided with a side aperture at its upper part and a cover with a corresponding aperture, on which an annular projection on the cover and an annular depression in the powder container are arranged at the same distance from the apertures. (A. Wulffing & Co. 195,843.)

Destroying Wood-worm.—This claim relates to fumigant consisting of para-dichlor benzene crystal (1 lb.), non-mineral soap (2 lb.), and raw linseed (3 oz.), and the process of preparing it, as follows: The soap is flaked and covered with cold water, allowing stand until jellified, boiling to a lather, then adding crystals and oil, quickly and with thorough mixing. Tightly cover whilst cooling off. (C. W. Dwyer. 195,885.)

FRENCH

Tannin.—This process consists in extracting galls with dilute sulphuric acid (3 to 5 per cent.) and precipitating the tannin by the addition of powdered zinc. (L. Roessler & Co. B.F. 551,829.)

Anhydrous Magnesium Chloride.—Magnesium carbonate is heated in an excess of dry hydrochloric acid gas, in a furnace permitting a continuous process. (Compagnie Produits Chimiques et Electrometallurgiques Alais, Frochet & Camargue. B.F. 551,885.)

Gallic Acid.—Galls are treated with a solution of caustic soda (30 per cent.) at a temperature of about 50° C., increasing the temperature towards the end of the extraction to 100° C., whereupon the mixture is boiled for thirty minutes. The mixture is filtered, the filtrate diluted, and when cool the gallic acid is precipitated by the addition of sulphuric acid. (L. Roessler & Co. B.F. 551,828.)

Marriages

Notices for insertion in this column must be properly authenticated.

MCGREGOR-GAULT.—At St. Anne's Parish Church, Dungannon, on April 18, by the Rev. Canon McEndoo, A., John McGregor, M.P.S.I., eldest son of Mr. McGregor, Milford, Armagh, to Florence Marion Wallace, only daughter of Mr. John Gault, Archdale, Dungannon.

PHILIP-BLAIR.—At Ryehill U.F. Church, Dundee, on April 28, by the Rev. George Blair, M.A., B.D., assisted by the Rev. W. S. Anderson and the Rev. J. A. Cannon, George Philip, chemist and druggist, son of Mr. James Philip, Markinch, to Alva Edwardes Blair, only daughter of the late Mr. John Blair, Markinch.

Deaths

BINGHAM.—At Long Bennington, recently, Mr. William Henry Bingham, father of Mr. W. A. Bingham, chemist and druggist, Charnminster Road, Bournemouth.

DODD.—At 51 Roker Avenue, Sunderland, on May 2, William Dodd, chemist and druggist, aged eighty. Mr. Dodd was a native of Sunderland, and served six years' apprenticeship there to the late Mr. B. In the 'sixties he commenced business on his own account in Wear Street, subsequently removing to the place he occupied until his death. Mr. Dodd, who held important offices in the Wesleyan Church, was widely esteemed for his courtly and kind-hearted disposition. He is survived by a widow, seven sons, and two daughters.

GREENWOOD.—On April 30, Mr. George Lister Greenwood, chemist and druggist (G. L. Greenwood & Co., manufacturing chemists), Keighley, aged fifty-four. Greenwood, who was apprenticed to Mr. W. Dearden, chemist and druggist, Keighley, started a wood distillation works at Ingrow during the war. Mr. Greenwood was twice married, and leaves a widow, three sons, and three daughters.

HARRISON.—At Sunderland, on April 27, Mr. Edward James Harrison, chemist and druggist, eldest son of Mr. John Harrison, J.P. (for many years a member of the Council of the Pharmaceutical Society), aged fifty-two.

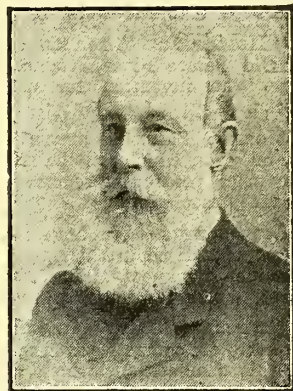
MAUNDER.—At 47 North Street, Taunton, on May 6, after a long illness patiently borne, Ethel Elizabeth, the only-loved wife of William Henry Maunder, Ph.C.

PREECE.—On April 27, after a painful illness, Mr. Charles Godwin Preece, chemist and druggist, Mortimer, Ealing, aged sixty-three. Mr. Preece, who was at one time with Savory & Moore, Ltd., represented Thomas F. Ingkinson, Prestons & King, in the Home Counties and West of England for about thirty years, gaining the esteem of a wide circle in the trade. Among those present at the funeral, which took place on May 2, at St. Mary's Church, Mortimer, was Mr. H. C. Preston.

WILSON.—At 15 Shandon Crescent, Edinburgh, on May 7, Mr. Frederick William Wilson, chemist and druggist, third son of the late Mr. J. B. Wilson, dental surgeon.

WORTH.—At Surbiton, on April 27, Mr. Edwin Worth, chemist and druggist, aged seventy-six. Mr. Worth commenced business in the Arcade, Bournemouth, in 1868, subsequently removing to Old Christchurch Road and on to Albert Road. In 1914 he transferred the business to his son, Mr. A. J. Worth, chemist and druggist, and to his residence at Surbiton. Mr. Worth, who was held in great esteem in Bournemouth, was a prominent Freemason, and was interested in rowing and angling. He was one of the founders of the Bournemouth Pharmaceutical Association, and served terms of office as its president and secretary. The interment took place at Bournemouth on May 2; among the numerous wreaths was one from the Association, as well as similar tributes from the druggist and the Horsa Masonic Lodges.

STACEY.—At 45 Fellows Road, London, N.W.3, on May 5, Mr. Samuel Lloyd Stacey, J.P., chemist and druggist (Corbyn, Stacey & Co., Ltd., manufacturing chemists, 673 Commercial Road East, E.14), aged ninety-two. By the death of Mr. Stacey an interesting link with the past is severed. The authenticated history of the business dates from the latter part of the seventeenth century, and there is good reason for believing that the House of Corbyn is of still older date. When an illustrated account of the firm appeared in *THE CHEMIST AND DRUGGIST* (I., 1896, p. 164) we called attention to mortars at the headquarters (then in High Holborn), dated respectively 1536 and 1658; and of equal or greater significance was the finding in Messrs. Corbyn's Poultry premises of a sign representing the "Bell and Dragon," then as now their trade-mark, and presumably dating from before 1666, the year of the Great Fire. In 1772, Thomas Corbyn, who had a considerable export trade, added to his staff George Stacey, and eight years later made him a partner. Other partners were added subsequently from time to time, but ever since John Corbyn, son of Thomas, relinquished his interest Mr. Stacey's family has been at the head of affairs. Rather more than a generation ago the firm had three retail businesses in addition to the wholesale—at 360 High Holborn, E.C., 7 Poultry, E.C., and 86 New Bond Street, W., and many pharmacists now in business on their own account remember with pleasure the style and finish that were insisted on for every transaction, whether at the counter or in the dispensing department. In 1894-97 these shops were disposed to the respective managers, and the firm reverted to its former status. In 1918 Messrs. Corbyn, Stacey & Co. converted themselves into a limited company, and ten years afterwards they removed their headquarters to the present address. Mr. S. L. Stacey was known for a long period on 'Change, and as an auditor of the Pharmaceutical Society, in both of which spheres his striking figure was familiar. For some years past he had been the *doyen* of the drug-trade; and although ailing in the last few weeks, he happily retained his faculties unimpaired to the end. He is survived by five sons and three daughters.



Mr. S. L. STACEY, J.P.

Personalities

SIR JESSE BOOT, Bt., has purchased for £6,000 premises known as "Olympia" (at one time used for entertainments) on the Esplanade at St. Helier.

MR. SAMUEL SCHWARZ (Polak & Schwarz, Zaandam, Holland) is at present in London, and may be addressed c/o Mr. K. B. Mavlanter, 6-8 Beauchamp Street, London, W.C., the London agent of the firm.

MR. DAWSON LLOYD, F.C.S., South Coast representative of John Richardson & Co. (Leicester), Ltd., manufacturing chemists, has removed to 21 Tavistock Road, Westbourne Park, London, W.11.

MR. J. R. HORN, chemist and druggist, Goldthorpe, Rotherham, has been elected chairman of the Bolton-on-Dearne Urban District Council and a justice of the peace at the Doncaster West Riding Court.

WE are informed by Arthur H. Cox & Co., Ltd., manufacturing chemists, Brighton, that the rumour that Mr. Charles Flude (their representative in the Midlands and the North of England) has left their employ is absolutely without foundation.

Trade Notes

ABBE REFRACTOMETER.—Adam Hilger, Ltd., refer to the advantages as a check which the Abbe refractometer offers to manufacturers of pharmaceutical products.

"HOLDER-CASE" FOR SHAVING STICKS.—Mayreis Bros., 3A Old Palace Place, Richmond, illustrate the "Holder-case," an invention for use as a holder for shaving sticks.

MOTHER SEIGEL'S SYRUP is again available in the 1s. 3d. size, which will be sold retail at face value under the price protection scheme of the Proprietary Articles Trade Association.

CAPSOL DYES.—We have received samples of the products advertised in this issue by Capsol Dyes, Ltd., Sep Avenue, Blackpool. The dyes are sent out in a compact form, which makes them very convenient for retail.

SANTALETTE'S SOAP COMPETITION.—Owing to the large number of competitors, the publication of the results of this competition, which was to have been given this week, has had to be postponed until our issue of May 19.

CASH'S VANGE WATER.—The revised retail price of Cash's Vange water is 30s. per dozen bottles. Supplies are obtainable from the Universal Distributing Agency, Ltd., 16 Great James Street, Bedford Row, London, W.C.1.

J. TARANTO & FILS, export merchants, inform us that they have resumed business in Smyrna, in provisional premises in the Merikilam Oglou Han, pending the rebuilding of the town. Telegraphic address: "Afon Smyrna."

ALEXANDER & CO., LTD., 44/46 Leadenhall Street, London, E.C.3, inform us that they are the representatives in the United Kingdom of the old-established firm of Hasche & Woge, Hamburg, for pharmaceutical chemicals and crude drugs.

"SANITAS" TOILET PAPER.—The "Sanitas" Co., Ltd., Locksley Street, Limehouse, London, E.14, give in their advertisement sample orders for "Sanitas" toilet rolls. The company claim that these rolls are the best line in medicated toilet paper on the market.

G.O. CONCENTRATED LEMONADE.—The Greenwich Lemonade Co., 11 John Penn Street, London, S.E.13, call attention to a bonus scheme which is being run in connection with the G.O. concentrated lemonade. The details are given in an advertisement in this issue.

OUABAIN ARNAUD is a comparatively recent product of the Laboratoire Nativelle, Paris, who are represented in this country by Wilcox, Jozeau & Co., 15 Great St. Andrew Street, W.C.2. Interesting particulars concerning this glucoside and its therapeutic indications are contained in a brochure issued by the Paris house.

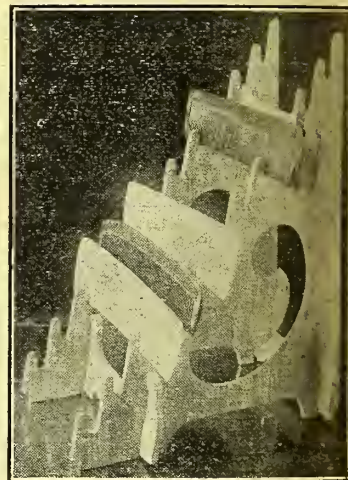
RATSTICKER.—The use of the Ratsticker method of killing rats and mice avoids the difficulties which some chemists experience in getting customers to sign for rat poisons containing statutory poisons. Ratsticker is mechanical but effectual in its action. The manufacturers are B. Winstone & Sons, Ltd., 100-1, Shoe Lane, London, E.C.4.

KEENE'S "ONE-NIGHT" CORN CURE.—The advertisement in this issue of Keene's Laboratories, 52 Gray's Inn Road, London, W.C.1, gives details of the advertising campaign which is being arranged in connection with Keene's "One-night" corn cure. Those chemists who wish their name to appear in the daily Press as stocking the cure should correspond with Keene's Laboratories.

AYRTON'S LEMONADE TABLETS.—The spell of warm weather with which May has opened has brought a demand for cooling beverages. Ayrton's lemonade tablets for lemonade are in a most convenient concentrated form. One of the tablets added to a tumbler of water makes a pleasantly flavoured effervescing drink without any further addition. The tablets sell at 6½d. per tin of six. Showcards and display matter are sent with each order.

HYPOLOID PRODUCTS.—Burroughs Wellcome & Co. have added to their list of "Hypoloid" brand products "Infundin" Pituitary (Infundibular) Extract (new standard), equivalent to 10 per cent. extract. This product conforms to the standard recommended by the Medical Research Council and the United States Pharmacopeia, and is a sterilised solution specially prepared for hypodermic injection. This new strength of "Infundin" is particularly suitable for use in obstetric cases. As an ante-partum measure it may be used with caution in doses up to 0.5 c.c. Post-partum, the normal dose is 1 c.c., but larger doses, up to 2 c.c., may be given if necessary. "Hypoloid" "Infundin" (new standard) is supplied in hermetically sealed containers of 0.5 c.c. and 1 c.c. in boxes of six. In ordering, care should be taken to specify "New Standard," otherwise the original strength, which is equivalent to 17 per cent. extract, is supplied.

ARTISTIC DISPLAY STANDS.—The Samways display stands, advertised in this issue, present several novel features which will commend these fittings to the pharmacist for counter or window shows. The methods of displaying hair-brushes, combs, bottles, show cards, etc., to the best advantage has been studied by the inventor, with the result that each article can be shown on a stand specially designed for the purpose. Samways stands are strongly built of 3-ply wood, and, while perfectly rigid when assembled, they can be packed flat when not in use. They are nicely finished in light oak, and prices are such that an assortment of the stands can be obtained at a reasonable figure.



Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first hand suppliers of the undermentioned articles will be appreciated

Z/15. Alonal	S/95. Dr. Grey's Silver Pills
M/95. Bryant's Oxygen Tooth Paste	L/274. John Coleman's Italian Stone Lotion and Electric Fluid
A/85. Buxton's Radium Salts (for internal use)	A/85. Necessivo
B/45. Celluline	H/85. Shavelet
P/65. Cleft's Fluid	H/95. Sir Hiram Maxim's Ear-drum Defender
E/75. "Corona" brand arsenate of lead	M/35. United Service Eau de Cologne
B/85. Deodorised oil of cade	S/15. Zanola ointment

INFORMATION SUPPLIED

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.4.

Alvesco. E/45	"Guelph" kegs. W/45
Ammonol. T/95	Heftband rubber surgical goods. H/55
Armand's face cream. A/95	Lactogen milk food. P/65
Beetle virus. K/75	Phel-Sano. E/45
Cellulose wadding. D/75	Physikurate. L/65
Christina tissue. B/95	Rexona ointment. B/85
Dr. Hommel's Haematogen. A/65	

A CASE of anthrax has been discovered at Bolton, and has been traced to the use of an infected shaving brush purchased at Blackpool.

Observations and Reflections

By Xrayser II.

The Strictly Historical

and descriptive character of your pamphlet on the business of the chemist and druggist is what specially recommends it to me and removes it from the category of mere propaganda. It may confidently be said that not one member of the public out of ten has any clear notion of what the term chemist and druggist really denotes. I remember vividly a little incident in my career as a country chemist which illustrates this ignorance. A mixture I had made up for a local magnate differed slightly in appearance from what had been supplied from the same prescription by a leading chemist in a neighbouring large town. I was at once charged with error, and my customer in reply to my assertion that the mixture as supplied by me was absolutely correct ridiculed the idea that I should set myself up against a leading firm in —. I had some difficulty in convincing him that every pharmacist goes through the same training, passes the same examination, and has the same certificate of qualification; in fact, it was not till the two mixtures had been submitted to the prescriber and he had pronounced mine right and the other wrong that my position was established. The mixture, I should perhaps explain, contained an infusion of cinchona, which the other man had filtered and had not, but that is a detail. The point is the ignorance of a man of high position that a chemist is a chemist, though he may be only a country chemist.

The Pharmaceutical Society

has shown a degree of altruism which is truly Christian in its readiness to help the police in the enforcement of Section 5 of the Poisons and Pharmacy Act. This section is more inimical to the interests of pharmacists and the safety of the public than any piece of legislation ever perpetrated at our expense. Its provisions were opposed by most chemists at the time, and have been resented ever since. It has been very generally held that in endorsing them, or perhaps I should say accepting them, in return for certain concessions with regard to the use of titles, etc., the Society sold our birthright for a mess of pottage. But for that insane preoccupation with the comparatively unimportant question of titles, the Act embodying them would never have received the measure of support it did from the Society. I now agree meekly to help the police to make more effective an Act so injurious to ourselves. I may be told that all this is ancient history; that we have no alternative but to accept an accomplished fact; that mere policy demands compliance with a suggestion from such a quarter. There may be something to be said for this view, but only this is the first time that even a Home Secretary has asked a public body to assist in cutting its own throat, at least the throats of its members.

Mr. Bridgeman

says quite truly that the Society has no statutory responsibility in the matter, and he might have said in equal truth no responsibility of any kind. It might indeed be argued with considerable force that in accepting the rôle of deputy policeman under this Act the Society is guilty of a glaring inconsistency, that it falsifies all we have ever said of the impolicy of entrusting the trade in "poisonous" substances to unqualified hands. To recognize an accomplished fact is one thing, to assist in its perpetuation is another. When a respected customer asked me to analyse, without charge, a sample of mustard which he bought at "the stores," I said, "No, madam, I can't do that, but I can sell you mustard that does not call for analysis." The Society should have made a similar reply, "We store to us the sole right of dealing in these substances, and we will see that your regulations are enforced." I venture to say that the Society would do well to mind its own business. The enforcement of the Pharmacy Act of 1908 has proved quite as much as it is capable of. The attempt to enforce Section 5 of the Act of 1908 will probably result only in its earning for its members the ill-will of their neighbours who are licensed under the Act.

The Society's Annual Report,

even in your summary, is too long to receive the detailed examination it deserves from every pharmacist; one or two points may therefore be usefully emphasised here. Financially, the year 1922 has not been quite so prosperous as 1921. The savings by decrease of expenditure are less by nearly £1,400 than the decrease of income, and the amount carried to the accumulated fund is correspondingly less than in the previous year. This, however, is only what might have been expected. It is a more serious fact that the membership of the Society has increased by less than half the number of additions to the Register. In 1921 the proportion of newly-registered persons who joined the Society was, however, less than this. The proportion of failures in the Qualifying examination was even more than in the previous year, considerably less than a third of the candidates having been successful. There were 20 more passes in the Major than in 1921—59 to 39. The Council foresees the end of its labours in organisation. The reference to the lecturers who are employed by the Society to minister to the new branches prompts a sigh of regret for the time when local associations could find efficient lecturers of their own. I hope we are not to infer that intellectually the branches will be altogether spoon-fed. University degrees in pharmacy are also well within sight. The Council must be congratulated upon the result of its action with regard to the Dangerous Drugs Act.

Mr. Rowsell

is an honest man. He spoke out at Bath with a frankness to which we are not accustomed in advocates of the Society's organisation scheme. He is not one of those who "snake-like slime their victim ere they gorge," and he wasted no words of compliment on the Associations he is anxious to supplant. He spoke of them in general as a "dead, inactive" lot, and boasted that they had been "got rid of" in Devon. Honesty, they say, is the best policy, and such talk as this is at least a relief after the honeyed phrases of some of those who, in reality, when they visit us, come to bury Caesar, not to praise him, however much they may flatter with their lips. But even Mr. Rowsell spoke somewhat indefinitely on the constructive side. He told his audience what the Society wants to do, but not precisely how it is to be done. "Local initiative," of course, is not to be interfered with, but "the position" is to be strengthened. (Clearly, the position of the Society is meant.) Now the most difficult problem of statesmanship is the reconciliation of a strong state authority with local liberty, and we have no assurance whatever that the Society has solved it, or can solve it. The promise that it will henceforth take a "live interest" in all its members is not enough; the tax-gatherer and policeman do that. What we should like to know is precisely what return it expects for what I heard called the other day "that d—d half-crown."

The Action of the R.P.U.

in advertising their propaganda and distributing their circulars in Scotland against the expressed wish of the local Executive cannot be defended, and much less their cavalier treatment of the remonstrances addressed to them. The Executive of the R.P.U., like the sons of Zerah, take too much upon them. Whatever the value of their window-poster and other "literature" (and it might easily be over-estimated), they ought not to force these things on those who don't want them, nor will it, eventually, pay to do so. I do not remember whether the Union has adopted a motto. If it has not, I suggest *Magnifico apostulatum meum*. It is Latin, has honourable associations and a high antiquity, and seems appropriate.

JAVA-GOVERNMENT CINCHONA.—During the year 1922 the plantations of the Government cinchona undertaking yielded a total of 982,412 kilos. of dry bark. The stocks held on December 31, 1922, amounted to 1,542,540 kilos, of which 554,770 kilos. were shipped to Holland, 196,108 kilos. were in Bandoeng, and 791,662 kilos. in the undertaking's stores. The sales of seeds and plants brought in the sum of fl. 43,735.

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Editorial Articles

German Foreign Chemical Trade

OF Germany's manifold industrial activities, the manufacture of chemicals had, prior to the war, admittedly reached a high degree of perfection, and the exports of this category of goods contributed materially to the national prosperity, besides possessing a very high propaganda value. The growth of Germany's chemical industry, particularly since 1871, and the development of its foreign trade, especially with the British Empire were exhaustively dealt with in THE CHEMIST AND DRUGGIST, I., 1914, index folio 396. During the war mighty impetus was given to this branch of industry firstly, by being called upon to provide new engines of destruction, and, secondly, by the necessity of utilising to the utmost, available raw materials, in the absence of foreign supplies of certain otherwise indispensable products. Since the conclusion of hostilities the chemical industry has further expanded; existing works have extended their plant, while new establishments have been erected and new companies formed by the score. The almost feverish activity displayed in developing this branch of enterprise is reflected in the fact that the chemical industry now figures prominently among the

industrial undertakings calling upon the public for funds, either for increasing capital or for the construction of new works. Each issue is eagerly taken up, as chemicals have come to be regarded by the German public as an assured source of wealth, either in the shape of exports—the people being imbued with the idea that German chemicals are indispensable—or, as a speculative investment. It cannot be too strongly emphasised that the foundation stone upon which the success of the German chemical industry rests is co-operation: the co-operation of science, which places all its resources unreservedly in the interests of this branch of commercial enterprise; the co-operation of individual manufacturers, in large and small, general and specialised groupings, a co-operation whereby cut-throat competitive tactics are eliminated without any material surrender of individual liberty of action in the fight for markets, and which has as its aim the advancement of the welfare of the whole industry by the exchange of information, protection of its economic interests by concerted action, and concentrated utilisation of plant and materials; lastly, the co-operation of the government, providing an organised system of commercial information and a policy designed to foster its development, e.g., lower freight rates to ports on goods to be exported. This question of industrial co-operation was discussed editorially in *THE CHEMIST AND DRUGGIST*, II., 1919, index folios 8 and 1,001. In view of the important participation of German chemicals in the world's trade, considerable interest attaches to a comparison of the post-war exports with the pre-war figures, for conditions have materially altered. German manufacturers now have to deal with the existence of a highly developed, growing chemical industry in many countries which formerly were reckoned among their best customers; new states and new political constellations have been created, and, in addition, far-reaching protective barriers have been erected against foreign, in some cases particularly German, imports. We are able to present to our readers, on page 673 of this issue, a comparison of Germany's total foreign trade in chemicals and drugs in 1922 and in 1913, and detailing the participation therein of the British Empire, as far as the corresponding data are available, based on the figures specially published by the German statistical bureau. An analysis of these figures reveals some highly interesting facts, illustrated by the mutations which have taken place in imports and exports in 1922, as compared with the position in 1913. In the first place, attention may be drawn to the considerable drop in the total exports of chemicals, and British purchases in 1922 represented only a fraction of those recorded in 1913. This very substantial line in exports of a category of goods at one time regarded as being practically an unassailable German monopoly affords eloquent proof of the progress realised in Great Britain, and elsewhere, in the successful manufacture of synthetic dyes. On the other hand, compared with 1913, an increase in exports is registered for quite a number of goods, foremost among which figure: ammonium nitrate and lead nitrate, bromides, calcium carbide, lactic acid, ammonium carbonate, ammonium chloride, pyrex glass, etc. Caustic potash, caustic soda, and linseed oil were imported in amounts largely in excess of those ordered for 1913. Paradoxical as it may appear, Germany, from being a sugar-exporting country is now compelled to purchase large amounts of this commodity abroad, the imports of beet sugar in the past year amounting to over 86,500 tons, of which 4,282 tons were obtained in Great Britain; a reversal of the position in 1913, when Germany produced no less than 2,632,282 tons of beet sugar, of which 838,583 tons were exported to Great Britain, while the insignificant amount of 52 tons was imported.

"Not Guilty"

THE drug trade is to be congratulated upon the stand taken by Mr. Hugh Lloyd when charged at the instance of the Islington Borough Council with inaccurate dispensing. We shall remember Mr. Lloyd as a chemist who had sufficient faith in his dispensing to reject the advice tendered to him to plead guilty. The defence of this case (reported elsewhere in this issue) was undertaken, in difficult circumstances, by Mr. Hildreth Glyn-Jones, and counsel was able to bring out several interesting points. The analyst's certificate was proved to be incorrect in that the proportion of potassium bromide was reckoned in terms of 100 per cent. bromide instead of the 98 per cent. salt of the British Pharmacopœia, a blunder calculated to mislead the magistrate. A chemist is bound by the Pharmacy Act, 1868, to dispense medical prescriptions according to the formularies of the British Pharmacopœia. Yet the analyst's certificate refers to potassium bromide of a purity that if it exists is a chemical curiosity. This one point (of several others) is sufficient to prove our assertion that in many of these dispensing cases there has been a grave miscarriage of justice. Looking up the records of recent cases, we find the following, which, in view of the evidence in Mr. Lloyd's case, can with reasonable safety be pronounced as unjustly decided:—

1. Mist. pot. brom. (L.I.P.), deficient 12 per cent. of pot. brom. Ordered to pay 21s. costs and analyst's fee 10s. 6d.
2. Mist. pot. brom. (L.I.P.), deficient 14 per cent. in pot. brom. Ordered to pay £4 4s. costs.
3. Mixture containing potassium iodide, 1.2 per cent. excess. Fined 20s.
4. Mixture containing a deficiency of 12 per cent. of potassium iodide. Fined £2, and £2 2s. costs.

This does not exhaust the list of what we regard as miscarriages of justice, but it is a fairly strong indictment of the Ministry of Health, who started Medical Officers of Health on a line of prosecutions for which they are ill-equipped without giving them warning of the great risks that injustice may be caused to dispensing chemists and injury to the public confidence. We hope the Pharmaceutical Society will promptly interview the Ministry of Health and the Society of Public Analysts, and see that steps are taken to stop what has become a public scandal. As a result of the Lloyd case, it will probably not now be necessary to organise the suggested London Chemists' Defence Committee.

The Finance Bill

It is not surprising to find that the text, which has recently appeared, of the Finance Bill for the current year excites general public interest. There are few people who in these days can afford to be indifferent to questions of taxation; and until the provisions of the Chancellor's Budget proposals take their final form in print the ordinary taxpayer retains a vague hope that they may after all prove less unfavourable to him than he had feared. The Bill makes few changes in taxation, so few indeed that one wonders why they could not have been expressed with more simple clearness than they have been. We have the tea duty unchanged, and we have the wartime Customs duties on imported dried fruit and the increased medicine-stamp duties continued with that regularity which threatens to remove them from the category of emergency to that of regular imposts. Turning to the more agreeable incidents of the Bill, we have the total remission of the duties on cider and perry, and the reduction of the duty on sweetened

table waters from 4d. to 2d. per gallon. But the most important concession of the Chancellor in this class of duties is of course the reduction in the beer duty. Clause 2 provides for a rebate of £1 "for every thirty-six gallons of beer, of whatever original gravity, charged with duty and delivered from the brewery, or where the duty payable in respect of thirty-six gallons of any beer so charged and delivered is less than two pounds and four shillings, a rebate equal to the amount by which that duty exceeds the sum of one pound and four shillings." Why the rebate was granted in this form, and not on the beer as reckoned on the thirty-six gallons at the standard gravity as charged to beer duty, must, we suppose, remain for some time a mystery of politics, which is all the more surprising that in making the rebate on beer brewed privately the method for the charge of duty is that which is adopted. A private brewer gets, under Clause 2, a rebate of £1 5s. on every thirty-six gallons brewed by him at the original standard gravity of 55°, as charged. It would seem that the draftsman of the clause had some perception of its lack of clearness, and this may be why, in sub-clause (3), the Commissioners of Customs and Excise are given such wide powers to make regulations "for the purpose of facilitating and controlling the calculation of the amount of the rebate to be allowed." The income-tax part of the Bill opens with the agreeable announcement of the reduction of the rate from 5s. to 4s. 6d., after which comes a clause readjusting the burden of the tax on insurance companies in the direction of allowing greater flexibility in the rules which determine what portion of the receipts of an insurance company are profits in the commercial sense of the term, and what are expenses of management. The next provision of general interest is Clause 11, which in effect provides that High Commissioners and Agents-General of self-governing Colonies and Dominions and their staffs shall, for the purposes of liability to income tax, be regarded as resident outside our tax area, and consequently not liable to income-tax. Clauses 15 and 16 contain provisions so strangely drafted that it is little wonder that they have been the subject of fairly general misapprehension by correspondents who have referred to them in the Press. They are evidently intended to enlarge the time during which back income-tax can be claimed by the income-tax authorities from three years to six, and to make to the taxpayer a similar concession as to the time within which he can claim repayment of tax paid when not due or overpaid. But this is in both cases limited to tax chargeable for the year 1920-21 or any subsequent year of assessment, so that the period of six years has to start from that year. At the same time a very useful concession is made to the ignorant, busy or idle by the sub-clause which in all cases allows a claim for repayment to be made within at least a year after the close of the year of assessment. A reflection of the frequent prosecutions for income-tax frauds which our courts have witnessed of late is seen in Clause 14, which stiffens the penalties imposed on those who lend their expert aid to the carrying through of the frauds. Clause 17, which gives relief to farmers and others engaged in agriculture, might point a moral for chemists in their attitude towards Chancellors. A grievance which is not so vocal as to be politically inconvenient is likely to be looked on as without substance. The only other provision of general interest which need be referred to is the reduction of the corporation profits tax by Clause 23—a reduction which it is to be hoped is the harbinger of its early complete abolition.

The New Chemical and Dyestuffs Traders' Association

ELSEWHERE in this issue we publish a note regarding the amalgamation of the two chemical merchants' associations and the formation of the British Chemical and Dyestuffs Traders' Association. Traders are to be congratulated on this excellent move, for there is no doubt that in the past their interests have suffered materially through lack of a proper and representative body, especially when presenting their case to the various Government departments concerned with trading restrictions. The unity of the new body is well illustrated by the election of the two leaders of the old associations to the chair (Mr. Victor Blagden) and vice-chairman (Mr. Fredk. T. T. Reynolds), and their acceptance of office will no doubt be cordially approved. In fact, the Executive Committee is one of considerable strength, and is thoroughly representative of all branches of the trades the Association stands for. There will certainly be no excuse for any single chemical or dyestuffs merchant standing out from membership. Indeed, it is doubtful whether any such trader can afford to be outside such an organisation, and with Government restrictions in the form of prohibitions and import duties a strong protection society is essential, and in their own interests every firm interested should support the Association to their fullest ability. There is much work for the new organisation to do besides protecting the traders' interests in connection with trade restrictions. It should now be possible for the Association to cleanse the trade of some undesirable features. Since the war there has been no little complaint about some firms, most of them of mushroom growth, who came into the trade during the post-war boom, trading by rather doubtful methods and sharp practices. Another matter that the Association might well give early attention to is the standardising of contracts. There is a splendid opportunity to do much good work, and with the hearty co-operation of every firm in the chemical trade the Executive should be well competent to carry it out in a successful manner. The appointment of Mr. O. F. C. Bromfield as secretary should give satisfaction. During his five or six years of similar work in the trade he has gained the confidence and support that is a necessary factor to such an appointment.

Linimentum Terebinthinæ, B.P.

THE official liniment of turpentine is a frequent source of trouble from its tendency to form a jelly on keeping. This gelatinisation is due to the absence of enough water to keep the soap in solution. As the large quantity of soap is unnecessary to form a stable emulsion and is moreover, often irritating to delicate skins, the amount might reasonably be reduced, and the liniment would then be free from any tendency to gelatinise. Using the official proportions of turpentine and camphor and half the quantity of soap, a permanent emulsion is readily formed. If the quantity of soap is reduced to one-third (i.e., $\frac{1}{2}$ oz. to the pint), a good emulsion results, but there is a slight separation of aqueous soap solution; if, however, the amount of turpentine is increased to 14 oz., no separation occurs. A simple method of making the emulsion is as follows:—Put soft soap, $\frac{1}{2}$ oz., water $2\frac{1}{2}$ oz., camphor 1 oz., oil of turpentine, 14 oz., in a 30-oz. wide mouth bottle, and set aside over the week-end. The contents will then be in two layers, a lower aqueous solution of the soap and an upper solution of the camphor in the turpentine. If this is shaken a few times the emulsion is readily formed, and may then be diluted with water to make a pint. A quicker way, as I suggested some years ago in the *C. & D.*, consists in using oleic acid and solution of potash: two drachms of oleic acid and one fluid ounce of liquor potassæ are equivalent to half an ounce of soft soap. If desired, the product can be "superfatted" by using an excess of oleic acid.—WM. A. KNIGHT, Ph.C.

Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, The Chemist & Druggist, 42 Cannon St., London, E.C.4."

Report on the April Analytical Exercise

THE powder distributed to students on April 10 contained four parts by weight of zinc hydroxycarbonate, one part of manganous sulphate, and one part of sodium citrate. The calculated composition of such a mixture is—

Zn	...	...	...	...	23.0
Mn	...	...	...	...	12.3
Na	...	...	...	...	1.9
CO ₂	...	...	...	...	7.0
SO ₄	...	...	...	...	21.5
C ₆ H ₅ O ₇	...	...	...	...	5.3
OH	...	...	...	...	8.0
H ₂ O	...	...	...	...	21.0
					100.0

Light traces of iron and ammonium were also present impurities.

Samples of the powder were distributed to forty-two students, and nineteen reports were submitted for examination. The failures in the detection of the several constituents were:—(a) Metallic radicals:—Zinc, 5; manganese, 3; sodium, 3. (b) Acidic radicals:—Carbonic, 2; sulphuric, 2; citric, 16. Eight students failed to report the moderately abundant evolution of water when the powder was gently heated in a dry tube.

The reports upon this exercise show that the detection of the citric acid radical was (as it was designed to be) the chief and, indeed, the only serious difficulty in the analysis. On heating the powder in a dry tube, some indication of the presence of organic matter was obtained, and the slow darkening which took place when it was heated with concentrated sulphuric acid was suggestive of a citrate. Quite a number of students suspected acetate, however, and most of these reported a variety of tests—including the cacodyl test—as affording conclusive evidence of its presence. It is to be presumed that they actually applied the tests they described, and that they merely misinterpreted the results of them; but, assuming that this is the case, the necessity for carrying out, for purposes of comparison, blank experiments in which the unknown substance under examination has been omitted, seems to be tolerably clearly indicated. The cacodyl test does not suggest itself as one the result of which is likely to give rise to doubt in the mind of any person who has ever applied it with due care and attention to a known acetate.

In the cases of the three students who reported the presence of a citrate, the evidence which they adduced was not of a wholly convincing kind, and it would have been well had it been further supported by confirmatory tests. Still, the unhesitating inclusion of a citrate amongst the constituents detected showed confidence in the indications of those tests which had actually been applied.

The presence of magnesium was commonly reported—sometimes as a trace, sometimes as a main constituent. In reaction with sodium or ammonium phosphate which led to this was almost certainly due to traces of manganese which had escaped precipitation in the zinc group and yielded a precipitate which is known closely to resemble ammonium magnesium phosphate. To ensure the precipitation of the last trace of manganese, it appears to be necessary to oxidise it by means of bromine in an alkaline solution, and then to filter. Unless this is done in cases where manganese has been detected, it is not safe to conclude that a slight precipitate formed on adding ammonium phosphate is really due to magnesium.

As is frequently the case, several students reported the liberation of fumes on heating the powder with concentrated sulphuric acid, which formed a dense cloud of ammonia, and which they attributed to the evolution of hydrochloric acid from a chloride. There can be little

doubt that these fumes were simply due to the volatilisation of some of the sulphuric acid employed for the test.

The trace of ammonium was detected by only a few students, who suitably tested for it. Mere boiling of the powder with solution of sodium hydroxide and testing for ammonia by smelling was not sufficiently delicate to reveal the presence of the trace in question.

PRIZES

The First Prize for the best analysis has been awarded to:—

MILLINGTON H. PAYNE, Fairlaw, Thrapston.

The Second Prize has been awarded to:—

CHARLES RIGBY, 181 Sheffield Road, Barnsley.

First Prize.—Any scientific book that is published at a price not greatly exceeding fifteen shillings may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about seven shillings and sixpence may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher, naming the book or books they select.

MARKS AWARDED FOR ANALYSES

M. H. Payne (1st Prize)	95	G. E. M.	...	71
C. Rigby (2nd Prize)	84	Kewstoke	...	71
Rosie	81	Diogenes	...	67
Piff	80	Expectans	...	64
Darwen	78	Jerry	...	63
Piper Nig.	78	Potassium	...	63
Maria	76	Septimus	...	52
H. Bowness	75	Holme	...	43
H. S. Blore	73	Centigrade	...	33
		Ebor	...	23

TO CORRESPONDENTS

M. H. PAYNE.—Dilute nitric acid, or, better, dilute hydrochloric acid should be employed in testing the solubility or otherwise of a precipitate formed on the addition of barium chloride in examining for acid radicals. The concentrated acids may cause the precipitation of barium nitrate or barium chloride, both of which, although readily soluble in water, are only sparingly soluble in the corresponding concentrated acids, and have, for this reason, often been mistaken for barium sulphate. The decrepitation of the powder was due to water enclosed in the crystalline particles of one or other of the salts. Manganous sulphate in fine powder is practically colourless, and several manganous salts are white, e.g., the oxalate. A confirmatory test for the citrate should have been applied.

CAROL.—The chloride you detected must have been introduced with the sodium carbonate you used, since the powder was free from chloride. A solution of the powder in dilute chloride-free nitric acid did not give any turbidity when mixed with silver nitrate.

DARWEN.—You did not report any constituent which could give rise to the slight charring you observed on heating the powder with concentrated sulphuric acid. An acetate would not have shown this behaviour.

PIPER NIG.—You mention testing for an oxalate by adding calcium chloride to an acidified portion of the sodium carbonate extract, but you omit to state what acid was employed. Acetic acid is the only appropriate acid for this test. The albumen you used in testing for a metaphosphate was, presumably, egg albumen; but would this not be coagulated by boiling with water in absence of any acid?

KEWSTOKE.—You observed effervescence when the powder dissolved in hydrochloric acid, but you do not appear to have made any attempt to connect this with the presence of a carbonate, and you did not include carbonic amongst the acidic radicals detected. Salicylates—not salicylates.

JERRY.—The green flame coloration which led you to suspect barium and to report reactions for the latter, was due to manganese.

SEPTIMUS.—The powder did not contain any constituent which could give reactions resembling those of nickel,

and we are at a loss to understand how you obtained the indications which you report. You will observe that the sulphuric acid radical present was much more than a trace.

HOLME.—No advantage resulted from carrying out separate analyses of the portions soluble and insoluble, respectively, in water. Note that the formula for sodium peroxide is Na_2O_2 . Read the first two sentences of the reply to M. H. Payne.

CENTIGRADE.—The powder was partially soluble—not insoluble—in water. You use the formula for phosphorous acid where it is evidently orthophosphoric acid which you wish to be understood.

EBOR.—We recommend you to prepare a mixture in imitation of the powder and to practise upon it until you can separate and identify its constituents with certainty.

THE ANALYTICAL TOURNAMENT

The analysis just reported upon brings to a close the competition for the special tournament prizes which we offered in October, and we are now able to publish the awards. The competition has been extensively participated in by students, seventy-six having sent in reports upon one or more of the exercises set, while ten of these submitted reports upon all six of the analyses. The standard of work done has been, on the whole, well maintained, and a number of excellent reports have been received. The finish has been close and is highly creditable to the competitors concerned. It is interesting to note the steady efforts put forth by those competitors who attain to the higher places during the progress of the competition, and we admire the plucky persistence of those who, with little or no prospect of gaining a tournament prize, carry on to the end. These students and those who, faint-heartedly, give up the competition before its completion, afford by contrast interesting material for study by the psychologist.

The first place in the competition has been taken by "Caglio" (Mr. Millington H. Payne, Fairlawn, Thrapston) with an aggregate of 521, made up of 79, 92, 89, 92, 74 and 95, and to him the first prize of books to the value of £3 3s. and a certificate have been awarded.

The second prize of books to the value of £2 2s., with a certificate, has been awarded to "Piff" (Mr. T. E. F. Parkin, Claremont, St. John's Road, Buxton), whose aggregate is 519, made up of 92, 89, 81, 93, 84 and 80.

The third prize of books to the value of £1 1s., with a certificate, has been awarded to "G. E. M." (Mr. George M. Smith, 10 Hartington Road, Buxton), with an aggregate of 499, made up of 93, 87, 79, 91, 78 and 71.

We offer our congratulations to these students on their success, and request them to communicate at once with the publisher, naming the books which they desire to have as prizes. We thank all the other competitors who, whether as prize-takers or not, contributed to the success of the tournament. Some of these may, perhaps, become prize-winners in a future competition.

PROGRESS PRIZES.—As a recognition of almost uninterrupted improvement during the course of the tournament we have pleasure in offering, as progress prizes, to two of the competitors who reported upon all of the six exercises their choice of any one of the following books:—"The Art of Dispensing," or Wootton's "Chronicles of Pharmacy."

The students concerned are Mr. F. P. Andrew, 6 Derby Street, Oxford Road, Manchester, and Mr. L. Fyfe, 27 Oxford Grove, Chorlton-on-Medlock, Manchester, and we shall be pleased to hear from them as to their choice.

MR. EDWARD JONES, chemist and druggist, has opened a pharmacy at 75 Woodbridge Road, Guildford.

MR. J. PHILLIPS, chemist and druggist, has opened a business at 146 Great Portland Street, London, W.1.

MR. J. B. DAY-LEWIS, chemist and druggist, late of 153 Maybury Road, Woking, has purchased the business of Mr. C. A. Tily, chemist and druggist, Riverhead.

MR. C. H. TRACY, chemist and druggist, late of 181 Church Road, Hove, has acquired the business of Mr. J. B. Day-Lewis, chemist and druggist, 153 Maybury Road, Woking.

Pharmaceutical Society of Great Britain

Branch Meetings

Birkenhead.—The members of the Pharmaceutical Society in the Birkenhead area met on May 2, to hold the inaugural branch meeting. The chair was taken by Mr. P. Grant, and Mr. Moreton Parry explained the Society's scheme of organisation. After the meeting had discussed the matter and questions had been put and answered it was resolved, on the proposition of Mr. Dodsley, seconded by Mr. T. Stephen Jones, that a branch be formed in Birkenhead. The chairman, officers and committee of the local Association, where eligible, were elected officers and committee of the branch. To represent members of the Society who are not members of the Association Messrs. Scott and Dodsley were added to the committee.

Bolton.—The Bolton Branch held a meeting recently, at which a lantern lecture was given by Mr. T. Midgley on *Insect Pests in Relation to Flowers and Fruits*. Mr. F. Brindle proposed a vote of thanks to the lecturer.

Croydon.—At a meeting of the Croydon Branch on May 8, Sir William Glyn-Jones in the chair, Professor Greenish gave an address on *How Drugs Reach this Country*. He sketched the progress of London's docks from the days of the original chartered companies to the present Port of London Authority. By means of excellent slides he showed the crude drug in packages, in storage, how it is graded and tested. An interesting account of the wine vaults was also given. At the conclusion of the address Mr. Finemore proposed the vote of thanks to the professor, which was seconded by Dr. Redfern.

Wrexham.—At a meeting of chemists, held on May 8, it was decided to form a branch to be called the Wrexham and District Branch. Officers were elected as follows:—*Chairman*, Mr. C. G. Caldecott; *Secretary and Treasurer*, Mr. James B. Francis; *Committee*, Sir L. Rowland, Messrs. Knox-Maver, Amos, W. E. Jones, Langshaw Rowland, and L. Assinder. Mr. Moreton Parry, Liverpool, delivered an address dealing with the educational and social aspects of the question.

Council Candidates

IV.

In our last three preceding issues we have given the election manifestoes of the eight candidates for the seven vacancies on the Council of the Pharmaceutical Society of Great Britain, together with a portrait and a brief biography of each. The following are the names, districts, and dates of joining the Council:—

Name.	District.	Date of First Election.
Bilson, F. E.	Bournemouth	1911
Hardy, T.	Maryport	—
Hines, F. G.	York	1917
Keith, A. R.	London	1920
Lloyd, H. O.	Southport	1920
Melhuish, A. R.	London	1920
Rowsell, P. F.	Exeter	1907
Simmons, E. H.	Salford	—

Voting-papers have been issued, and are returnable so as to reach the Society not later than noon on May 16, the day of the annual meeting. Since our previous notes on the candidates appeared, we have received copies of a card and a circular sent out by and on behalf of Mr. E. H. Simmons, setting forth concisely the views that he has already made known in our pages; and further support for his candidature will be found in the advertisement columns of our present issue. Additional letters bearing on the election appear in our correspondence columns (p. 680). Whatever view may be taken of the claims of individual candidates, the first duty of every voter is to use his voting-paper.

Chemical Society

At the meeting of the Chemical Society, held in Burlington House, Piccadilly, London, W., on May 3, the President, Professor W. P. Wynne, F.R.S., in the chair, five papers were read. Professor H. B. Baker, in his communication entitled *Change of Properties of Substances on Drying, Part II.*, related the results of further experiences obtained by the extreme drying of certain substances, some of which had been subjected to desiccation in his laboratory for a period of eleven years. He recorded the observation that in estimating the boiling point, the thermometer immersed in the liquid did not show the same temperature as the thermometer hung in the vapour, and whereas the former would indicate a rise of 14 to 22 degrees above the normal boiling point, the vapour showed an increase of only 1 to 2 degrees above normal. The boiling point of dried sulphur was found to be between 116.8° and 118.5°; that of bromine 118°, and its melting point -4.5°. Sulphur trioxide, dried since 1894, melted at 61° (normally 50°). A study of the vapour densities of certain extremely dried substances showed considerable differences from the normal figures; ether, which had been subjected to desiccation for ten years, possessed a vapour density of 81.7°, with a boiling point of 33°; and the vapour density of dried methyl alcohol was found to be 145°, whereas normally the figure is 114°. The *Sodium Salts of Phenolphthalein* formed the subject of the paper read by Mr. P. Halton (with Professor H. Bassett). The authors discussed the various theories advanced to explain the change of colour in reactions in which phenolphthalein is employed, and mentioned that only one case of a coloured sodium salt having been isolated is reported in the literature. A study of the system phenolphthalein-alkali-water was undertaken, sodium oxide being used, but although the mono-, di- and tri-sodium salts of phenolphthalein were obtained, with varying amounts of water of crystallisation, no coloured salt could be isolated. The constitution of these salts was discussed, the authors advancing the view that they possessed a phenolic, quinoid or carboxylic structure, and were highly hydrolysed in solution. The observation was made that alkaline solution of phenolphthalein does not exhibit any colour in the cold, but the colour appears on warming the solution. Professor H. Bassett (with Mr. R. G. Durrant) dealt with the precipitation of copper by thiosulphates in their paper on *The Action of Thiosulphates on Cupric Salts*. On the addition of a warm solution of sodium thiosulphate to a warm acid solution of a cupric salt, the reaction takes place in several stages, until reduction to the cuprous salt and sodium tetrathionate is completed. The cuprous salt then yields a double thiosulphate— $2 \text{Na}_2\text{S}_2\text{O}_4 \cdot 3 \text{Cu}_2\text{S}_2\text{O}_3 \cdot \text{H}_2\text{O}$, a yellow compound, which was shown. The modifications in the reaction caused by the presence of chlorides and nitrates were discussed, and mention was made that during the above reaction pentathionates are formed by the action of copper sulphate on the tetrathionate. *The Conditions of Reaction of Hydrogen with Sulphur. Part II. The Catalytic Effect of Oxygen. Part III. On the Mechanism of the Reaction of Hydrogen with Sulphur and its Catalysis by Oxygen.* was the title of the communication presented by Mr. G. W. Norrish (with Dr. E. K. Rideal), in which the authors dealt with their studies on the conditions under which hydrogen unites with sulphur, and the effects of the presence of oxygen on the reaction. Two reactions take place, a volume and a surface reaction, the poisoning occurring at a temperature of 340° C., due to the fact that the oxygen poisons the volume reaction, but catalyses the surface reaction. In conclusion, the theoretical foundation upon which these reactions are based were discussed. Professor T. M. Lowry prefaced his paper, titled *Studies on Electrovalency. Part II. Co-ordinated Hydrogen*, by the remark that the idea that hydrogen is monovalent is very prevalent, and the object of his communication was to suggest that this view is erroneous. The crystallographic evidence of ice, the quadrivalency of hydrogen in ice, involves the recognition of the divalency of hydrogen, which is capable of acting as a link. This supposition is further borne out by the electronic theory.

Professor Lowry then proceeded to apply this view to a few cases in co-ordinated complexes, in which hydrogen takes the place of a metal. With the aid of numerous slides showing structural formulas, he discussed the three forms in which ethyl acetoacetate exists, dealing particularly with the co-ordinated end form, in which the presence of a double bond hydrogen is assumed. The structure of nitro-camphor and of benzoyl-camphor was then discussed, and the author exhibited several specimens of metallic co-ordinated compounds of benzoyl-camphor. In conclusion, he stated that the labile form of tartaric acid had at last found a plausible formula, with which he proposed dealing in a subsequent communication.

Summer Outings

Visit to P. D. & Co.'s Works

A VISIT was paid recently to the Hounslow laboratories of Parke, Davis & Co. by members of the Essex County Association, with their friends, and also representatives from Ipswich, Norwich, Peterborough, and Cromer. After a tour of the works the visitors were entertained to lunch and tea.

Public Pharmacists' Social

THE Guild of Public Pharmacists held a social meeting and whist drive on May 1. Among the visitors welcomed by the President (Mr. F. A. Hocking) were Mr. Antcliffe (member of Council), Mr. and Mrs. Bullen, Mr. and Mrs. Langford Moore, Mr. and Mrs. Williamson, Mr. Lindsey, the Misses Andrews, Gilliatt, and Bedell, Mr. and Miss Langley, Mr. and Mrs. Andrews, Mr. and Mrs. Gibson, Mr. and Mrs. Elgar, Mr. and Mrs. Leadbeater, and Mr. and Mrs. Jenkin. The proceedings began at 7.30. During the interval light refreshments were served, after which play was resumed. Mrs. Bullen (wife of the vice-president) presented the prizes to the following:—*Ladies*: Miss Bedell, Mrs. Gibson, and Miss Langley, Mrs. Bullen. *Gentlemen*: Mr. Hall, Mr. Pyle, Mr. Leadbeater, and to Miss G. Dyer (playing as a gentleman).

Incompatibilities of Aspirin

THE following abstract is from a paper read by Prof. E. A. Ruddiman recently at Cleveland before the American Pharmaceutical Association. Aspirin is hydrolysed by a number of agents, water being the most common. The usual method of determining the amount of decomposition is to estimate the amount of free salicylic acid, and this is done by dissolving a given weight of aspirin in a little alcohol and then diluting with water to a certain volume and adding a solution of ammonium ferric alum. The coloration is in proportion to the salicylic acid present. In making this test the colour should be observed at once, as it increases decidedly in a few minutes, which indicates the quickness with which aspirin hydrolyses. In fact, in making compressed tablets, if water is used to granulate the powder there is an increase in the free salicylic acid. Aspirin dissolved in a solution of alkali citrate develops a violet colour with a ferric salt after standing some time, showing hydrolysis is not prevented. Sodium citrate caused some decomposition, as the odour of acetic acid was distinct after standing a few days. Potassium acetate or sodium phosphate gives with aspirin a mixture developing acetic acid odour and giving a violet colour with iron solution, and borax does the same. Hexamine when first triturated with acetylsalicylic acid gives a slightly damp powder, which becomes in a few days a greenish yellow almost liquid mass with an odour of formaldehyde, and ferric salt gives a deep violet colour. Antipyrin rubbed with aspirin gives a sticky mass becoming a hard solid with yellow colour, it also gives a deep violet with an iron salt. Phenol gives a liquid, but the following apparently cause no change: Salol, menthol, thymol, phenacetin, ammonium chloride, phenolphthalein, magnesium sulphate.

Association Affairs

Hull.—At a meeting of the Hull Chemists' Association, on May 1, Mr. H. Tebb, ex-president, gave a *Talk about Shopkeeping*. He expressed the opinion that it was not wise always to turn a customer over to some assistant when one could wait on him or her oneself. He advised proprietors always to keep their assistants doing something. With regard to assistants he was going to make an eleventh commandment which should read, "Thou shalt not tempt thy assistant." Mr. Tebb said he was a firm believer in advertising, but he advised his hearers not to let advertising take the place of anything else. He believed in the "Money back if you please" scheme. Failure never came if the best-quality goods were always stocked. In order to keep a stock of all the goods that there is a demand for, the proprietor should keep a "wants" book. He advocated advertising in newspapers and magazines, and if the reading matter was varied people then got into the habit of looking for the advertisement to see what the chemist was booming. Some advertisement writers seemed to think that the best advertisement was that which was startling, but there was nothing like good plain sensible talk for an advertisement, and the heading over it should bear some relation to the article advertised. Those who tried to write funny advertisements or to express themselves in poetry were just fooling. In window-dressing, care should be taken not to fill up the window with posters, but rather to use window strips. Brighter colours should be used in summer than in winter; summer windows should look cool, and light greens and pinks were admirable for this effect. Moving figures always were valuable in window displays, but these should associate themselves in the minds of the spectators with the goods shown. No man who hoped to do any business at all could do without the trade papers. Without these he could not keep up with the times, and they made all the difference to him between buying in the dark or in the light. They should be read from cover to cover, and the chemists would then find out whether their stocks were out of date or if they were bought at the right price. The trade papers believed in advertising, and gave chemists many good hints about how to do it. They also gave market reports that were very necessary to the chemist, and whenever anything new and really worth having came along they told about it. In conclusion, Mr. Tebb quoted an article entitled, "A Matter of Turnover," which appeared in a recent issue of THE CHEMIST AND DRUGGIST. A vote of thanks, proposed by Miss Bolton, and seconded by Mr. Jones, was carried.

Liverpool.—A combined meeting of the Liverpool Chemists' Association and the local Branch of the Pharmaceutical Society was held at the Royal Institution on May 9 to instruct the delegates to the London conference and to hear Mr. Simmons, a candidate in the forthcoming election. Mr. Ashcroft presided over a representative attendance. Mr. Simmons advocated sound preliminary education and training, but uttered a warning against over-education. The preliminary education should include a certificate equal to matriculation, so as to permit a university course if desired. Apprenticeship should cover at least four years, and facilities should be given for attendance at technical schools. The B.Sc. in pharmacy and the Major examination should be equivalent and carry adequate remuneration. Speaking as a loyal member of the Retail Pharmacists' Union, he said the lines of its operation and those of the Pharmaceutical Society should be clearly defined, and friction avoided by a joint consultative committee. He would fight against unfair competition and attack it through the Pharmacy Acts. Lunatics and prisoners had the benefit of qualified dispensers, then why should not soldiers and poor law hospitals? Wholesale dealers in poisons, he considered, should be registered. The Pharmaceutical Society might inquire into the whole system of dispensing, approximate to the Salford system of reasonable accuracy, and discipline defaulters. He advocated a code of ethics between pharmacists themselves, the public and the medical profession. He had tried to lift phar-

macy locally, and wished to help to raise it nationally. A resolution supporting Mr. Simmons's candidature followed.

Preston.—The Preston Pharmacists' Association met on May 2 when Mr. Hardy, Maryport, chairman of the Retail Pharmacists' Union, gave an interesting address on the work of that body. The President recommended for support at the forthcoming Council election Mr. Hardy, Maryport, Mr. H. O. Lloyd, Southport, and Mr. Simmons, Manchester.

Chemists' Windows

Photographs of windows sent to the Editor for reproduction should be accompanied by a note on how the displays were arranged.

A Dorothy Dainty Display

THE Dorothy Dainty powder puff window-show depicted below was arranged by Mr. J. Grieve, Ph.C., Queen Street, London, E.C.4. A black velvet curtain formed an excellent background for showing up the puff bags, which



were present in over forty combination colours, and the gilt display baskets. The pictures of Norma Talmadge, as seen in "The Eternal Flame" (C. & D., March 3, p. 301), and the testimonial from the artist added further attraction to the display.

Gazette

Bankruptcy Acts

RECEIVING ORDER

COE, W. W. (Junior), 24/26 Holborn, London, E.C., chemical manufacturer.

RECEIVING ORDERS AND ADJUDICATIONS

CALVERT, J., "Wagaraw," Greenhead Road, Huddersfield, manufacturing chemist.

ROOKES, W. P., Park Villa, Guest Road, Bishopstoke, and 10 Station Hill, Eastleigh, Hants, chemist and druggist.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

ENGLAND AND WALES

Local Reports

Cardiganshire.—At the quarterly meeting of the Insurance Committee, on April 27, Professor Jenkyn Jones said an outstanding feature was the cost of prescriptions in Cardiganshire for the last seven years, 1916-22. The eighth report of the prescriptions pricing establishment pointed out that the cost per prescription was higher in Cardiganshire than in any other area. The cost in Cardiganshire was 10.27d., while the general average for all counties was 8.62d., and the lowest average, Carmarthen, was 7.99d. Dr. D. M. Davies said one reason was that in other insurance areas the Panel Committees had adopted stock mixtures, and the cost of dispensing those was less. They had not adopted that method.

Grimsbey.—At a meeting of the Pharmaceutical Committee, held recently the following data for the quarter ended December 31, 1922, was submitted:—

Ingredient prices	£	s.	d.	No. of insured persons	22,366
Dispensing fees	149	7	1	Av. in.redient p.c.e..	3.0d.
Prescriptions	215	15	6	Av. dispensing fee ..	4.4d.
	11,763				

Lancashire.—Official returns compiled by the Lancashire Pricing Bureau show that the number of prescriptions dispensed during 1922 was 1,401,701, against 1,189,387 during 1921. The average frequency per insured person had increased from 2.79d. in 1921 to 3.25d. last year; the average total cost per prescription had been reduced from 9.57d. to 8.82d., and the average total cost per insured person had advanced from 26.75d. to 28.72d. Last year's prescriptions cost £29,004 in dispensing-fees, and £22,502 for ingredients. It is noted that for Oldham the average total cost per insured person advanced from 32.25d. to 35.23d., but the total cost per prescription had been reduced from 10.04d. to 7.33d.

Leamington.—The Warwickshire Pharmaceutical Committee met on April 26, Mr. Hutton presiding. Administrative expenses for 1923 have been approved. The Committee resolved that when mist. acid tonic and mist. alk. tonic are ordered on a panel prescription the old formula should be supplied and paid for. The Panel Committee's attention has been drawn to the unusual strength of lotio plumbi and lotio plumbi c. opio in the new formula. A letter was received from the Insurance Committee, explaining the delay in payment of the monthly accounts. This was ordered to be referred to the Retail Pharmacists' Union if there is no improvement. The report of the Central Checking Bureau showed agreement with the figures of the pricing office for October, November and December, 1922.

Nottingham.—For the quarter ended December 31, 1922, 89,193 prescriptions were issued. The average ingredient price per prescription was 3.3d., dispensing fee 4.5d. Following a recent scrutiny of doctors' prescriptions, a doctor will be surcharged £5 for excessive prescribing.

Sheffield.—A meeting of the Pharmaceutical Committee was held recently, at which the reports of the checking bureau were passed. The report of the Ministry of Health on the recent appeal was considered, and it was decided to object to that part of the report which stated that the Pharmaceutical Committee were a party to the details of the present scheme for the testing of prescriptions. The Pharmaceutical Committee had already suggested several improvements which the Insurance Committee had not adopted. It was decided to ask what reparation is intended by tinct. chlorof. et morph. when ordered in the local formula. The Committee unanimously agree with the firm of chemists who dispensed the P.C. preparation when ung. resorcin was ordered.

Somerset.—At a meeting of the Insurance Committee, on April 28, the Medical Sub-Committee reported that they had received from the county analyst his reports on three further mixtures dispensed, as follow: Ingre-

dient, sodium sulphate; amount prescribed over 30 gr.; amount found (1) 26.0 gr.; (2) 29.5 gr.; (3) 28.2 gr. Potassium iodide, 5 gr.; (1) 6.5 gr.; (2) 9.8 gr.; (3) 5.54 gr. Sodium salicylate, 10 gr.; (1) 11.3 gr.; (2) 9.8 gr.; (3) 11.2 gr. The label of one sample was not very satisfactory, as the dose was given in table-spoons, while the bottle was marked in one-sixth parts. They had drawn the attention of the chemists concerned to the discrepancies referred to by the county analyst, and, having considered their explanations, they recommended that they be cautioned as to the necessity of strict accuracy. The report and recommendation were approved.

Phantom Pharmacy

By the Man from London

ONE of the chain stores doing business under the name of a "pharmacy," located in the Woolworth Building, in New York, has removed its prescription department altogether to make more room for the soda fountain. In future any absent-minded person that may happen to drift in with a prescription will have to wait until it comes back from one of the company's drug-stores where prescriptions are still compounded and dispensed, the employees of this particular "drug-store" being too busy compounding and dispensing toothsome dishes at the lunch counter. Generally speaking, pharmacy as practised in American drug-stores of to-day is a non-descript kind of occupation with just a strain of professional blood running through it. People seem to like dealing with drug-stores for everything. When hungry they turn naturally into a "pharmacy" for a tasty meal at the luncheonette, and should they feel like spending their money they buy all manner of things, from a mouse-trap to a walking doll. Registered druggists will dilate in professional language upon the merits of an alarm clock or a coffee pot and any other article of hardware which does not require a derrick to lift it and a furniture van to deliver. American pharmacists are so obliging that all one needs to do when furnishing a house is to "ask the druggist first," and he will get everything for you, perhaps even to a wee drop in the cellar. There must be something peculiarly fascinating about this hyperbolic profession of pharmacy that appeals so strongly to numbers of young men who are content to live with the mere chance of flirting with it for a few minutes each day, while they spend the greater part of their time chasing the elusive dollar in the approved manner of other tradesmen, who are devoid of any professional yearnings. It looks as if commercial and business courses should play the major part in a calling which is estimated to be only a 10 per cent. professional one called for in compounding prescriptions which are in too many instances for ready-made proprietary medicines. Under the present conditions, where pharmacy is merely an appendage of a general business including various kinds of trades, every college of pharmacy might logically include in the curriculum some knowledge of window-dressing, candy and soda-fountain supplies, and give advanced instruction in the culinary art, for the future followers of our calling will, in all probability, be called upon to make all kinds of savoury dishes, and run quick-lunch counters. If one is to get a living by following an occupation whose body consists of the odds and ends of many different trades, the only visible professional part being its tail, which it feebly wags once in a while, he should at least learn how to keep the body in good shape. Higher education and more scientific training is a very laudable thing in its way if its way led to a professional career in the majority of cases. It is a commendable ambition of the colleges to wish to turn out professional pharmacists in every respect, but when these same men are called upon to gain their livelihood in stores where the results of their skill and knowledge represent a mere trifle in the day's returns, they are apt to conclude that their money and time have been badly used in gaining their diplomas.

Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1923, p. 289.

(From "The Trade-marks Journal," March 11, 1923.)

"PROVELIZED"; for a face powder (48). By Louise Clarke, 34 Coleraine Road, Hornsey, London, N.8. 431,329.

"DELPHIC"; for toilet preparations (48). By Jennie D. Buck, 4 Knightland Road, Upper Clapton, London, E.5. 431,378.

"OTHELIN"; for perfumery, etc. (48). By J. Cohen, 157 Lodge Lane, Liverpool. 432,864.

(From "The Trade-marks Journal," March 21, 1923.)

"ANDERITE"; for chemicals (1). By D. Anderson & Son, Ltd., 62 Short Strand, Belfast. 432,083.

"HOLDENITE"; for all goods (1). By A. Holden & Sons, Ltd., 218 Bradford Street, Birmingham. 433,204.

"GAYBIRD"; for animal medicines (2). By Gaybird, Ltd., Pankridge Farm, Moat Lane, Prestwood, Great Missenden, Bucks. (432,849. (Associated.)

"DIVER BRAND"; under picture of diver; for veterinary cod-liver oil, etc. (2). By P. Winn & Co., Ltd., 72 Mark Lane, London, E.C.3. 432,444. (Associated.)

"HARIC" on shield of mounted crusader over words "A Crusader Against Dirt"; for chemicals (2). By Harry Pickup, 1 Avenue Road, Camberwell Road, London, S.E.5. 432,872.

"WESTORAN"; for chemicals (2), and for goods (47). By The Weston Chemical Co., Ltd., Runcorn, Cheshire. 433,061/062. (Associated.)

"HYDROX MEDICATED BATH SALTS"; for bath salts (3). By Greener Elliott, 20 Bush Street, Middlesbrough. 431,374.

"CASSOL"; for an isotonic solution of fat-free casein for injection (3). By J. Morgan Richards & Sons, Ltd., 46 Holborn Viaduct, London, E.C.1. 431,389.

"VEOL"; for a medicine (3). By Gertrude Colmer-Williams, 17 Lancaster Street, Hyde Park, London, W.2. 432,242.

"VITOLEUM"; for medicinal chemicals (3), and for food substances (42). "SAINT MARY ATE THE BOURNE," surrounding picture of Saint Mary; for medicinal chemicals (3). By Saint Marylebone Preparations, Ltd., 2 Great Barlow Street, High Street, Marylebone, London, W.1. 432,322/321/323. (Associated.)

"ALUNOZAL" and "ASCIATINE"; for medicines (3). By Société Chimique des Usines du Rhône, 21 Rue Jean Goujon, Paris. 432,513/914.

"KAL-SEL," on label device, including hand and cup, with words "Just a Pinch, That's All"; for medicinal powders (3), and for aerated waters, etc. (44). By Saltrates, Ltd., 22 Euston Buildings, George Street, London, N.W.1. 432,994/995. (Associated.)

"GLAXO"; for medicinal chemicals (3), and for food substances (42). By J. Nathan & Co., Ltd., 16 St. Helen's Place, London, E.C.3. 433,121/122. (Associated.)

"TALCOY" and "TAYCOL"; for medicinal chemicals (3), and for perfumery, etc. (43). By Taylors' Drug Co., Ltd., 347 Burley Hill, Leeds. (433,192/193/194/195. (Associated.)

"STANOLENE"; for medicinal chemicals (3). By Anglo-American Oil Co., Ltd., 35 Queen Anne's Gate, Westminster, London, S.W.1. (433,374. (Associated.)

"PEARS' GOLDEN SERIES"; for toilet articles (43). By A. & F. Pears, Ltd., 71-75 New Oxford Street, London, W.C.1. B.422,572.

"AQUALITES"; for water softening preparations (48). By Eucryl, Ltd., Oakley Road, Shirley, Southampton. 433,257. (Associated.)

(From "The Trade-marks Journal," March 28, 1923.)

"HOMESTEAD" under picture of house; for all goods (1). By Baxendale & Co., Ltd., 41 Miller Street, Manchester. 432,689. (Associated.)

"PERMIEROS"; for chemicals (1). By Hoyle, Robson, Barnett & Co., Ltd., St. Nicholas Chambers, Amen Corner, Newcastle-on-Tyne. 434,093.

"ANZOLIC"; for disinfectant soap (2), medicated soap (3), and for perfumed soap (48). By Dorelsol Manufacturing Co., 2 Marvels Terrace, Grove Park, London, S.E.12. 424,003/004/005. (Associated.)

"MAGGOYL"; for chemicals (2). By B. C. Tipper & Son, 43/45 Homer Street, Balsall Heath, Birmingham. 433,565.

"FUNESCO"; for chemicals (2). By Murphy & Son, Ltd., "The Cedars," Sheen Lane, Mortlake, London, S.W.14. 433,885.

"TOPSAIL"; for chemicals (2). By E. Cook & Co., Ltd., Bow, London, E.3. 433,150.

"THORO KLEEN," with device of two soiled hands under water spray ("Thoro Kleen" disclaimed); for chemicals (2), and for perfumery, etc. (43). By J. Lindsay & Sons, Ltd., Montpelier Road, Dunkirk, Nottingham. 431,928/929. (Associated.)

"KALAK"; for an artificial medicinal alkaline water (3). By Kalak Water Co., of New York, Inc., 23 City Hall Place, New York, U.S.A. 428,954. (Associated.)

"TABEDO," "CHOLEDO," "DYSEDO," "MELEDO," "PESTEDO," and "RUBYL"; for medicinal chemicals (3). "EDO-VACCINS"; for vaccines (3). By Les Etablissements Poulenc Freres, 92 Rue Vieille-du-Temple, Paris. 430,500/501/502/503/504. (Associated.) 432,475; 430,493. (Associated.)

"RUGO"; for medicines (3). By A. H. Perry, 23A Savile Row, London, W.1. 431,433.

"NUBES" and "NUBAE"; for medicinal chemicals (3), and for food substances (42). By Warrick Bros., Ltd., 6 Nile Street, City Road, London, N.1. 431,805/806/809/810. (Associated.)

"METHOR," "FREINIX," "HEMOTONINE," and "OSTREASE"; for medicinal chemicals (3). By A. F. Buisson, 157 Rue de Sévres, Paris. 432,775/776/777/779.

"HAEMAMOL"; for ointments (3). By Duncan, Flockhart & Co., 155/157 Farringdon Road, London, E.C.1. 433,276.

"KAL-SEL"; for medicinal chemicals (3). By Saltrates, Ltd., 22 Euston Buildings, George Street, London, N.W.1. 433,524. (Associated.)

"TWENTINT"; for ointments (3). By W. J. & F. M. Maysey, 42b Kew Road, Richmond, Surrey. 433,634.

"ALIZONE"; for all goods (4). By The British Alizarine Co., Ltd., Westinghouse Road, Trafford Park, Manchester. 432,437. (Associated.)

"MEMORYKIT"; for photographic apparatus (8). By Ansco, Ltd., 143/149, Great Portland Street, London, W.1. 433,310.

"GLUTENIA"; for diabetic bread and foods (42). By Gluten Products, Ltd., 9 Upper Bridge Street, Canterbury East, Kent. 423,854.

"APYPHOS" over circle with letters "A.P.R."; "APYPHOS" over circle with letters "A.P.X."; ("A.P.R." and "A.P.X." disclaimed); for acid pyro phosphate of soda for use in food (42). By Bryce, Roberts & Co., 43 Great Tower Street, London, E.C.3. 432,349/350. (Associated.)

"MACTAYCO" in diamond shape frame; for a preparation for removing grease and tar (47). By McCreath, Taylor & Co., 170 Hope Street, Glasgow. 433,038.

"HONOUR BRIGHT" and "JAMES MELLIS & Co., PRESTONPANS" on square labels; for perfumed soap (48). By J. Mellis & Co., High Street, Prestonpans, Scotland. B. 429,041.

"CHIN-JOY"; for perfumed shaving soap (43). By C. A. Stokes, 34 Lower Castle Street, Bristol. B. 431,160.

"TUK" on circular device; for perfumery, etc. (43). By D. A. Evans, 63 Fore Street, Bovey Tracey, South Devon. 431,534.

"OLVA"; for perfumed soap (48). By Lever Brothers, Ltd., Port Sunlight, Cheshire. 432,093.

"SNOWBELL"; for perfumery, etc. (48). By F. W. Hampshire & Co., Ltd., Silk Mill Lane Derby. 432,130.

"ZOPURA"; for toilet soap (48). By Pearce & Steenberg, Ltd., 9 Bishopsgate, London, E.C.2. 432,213.

"MARJON"; for hair preparations (48). By Mary M. John, 27 Leigham Court Drive, Leigh-on-Sea, Essex. 432,466.

"BRYTO"; for polishing soap powder (50). By Price's Patent Candle Co., Ltd., Battersea, London, S.W.11. 429,871. (Associated.)

"WINSRAY"; for brushes (50). By T. W. Culmer & Sons, 48/50, Durham Road, Holloway, London, N.7. 433,440.

(From "The Trade-marks Journal," April 4, 1923.)

"VOXSAN"; for all goods (2) and (47). By Tebbutt, Strange & Co., 25 Imperial Buildings, New Bridge Street, London, E.C.4. 433,370/371. (Associated.)

"NOCRAL"; for a medicine for bees (2). By C. J. Ashworth, Elm Cottage, Pound Street, Warminster. 433,548.

"DIAMOND-SHAPE DEVICE"; for goods (3). By T. McMullan & Co., 42 Victoria Street, Belfast. 431,977. (Associated.)

"PARKO"; for medicinal chemicals (3). By S. McLoughlin, 2 York Road, Belfast. 433,039.

"IVELENE"; for a corn plaster (3). By R. R. Lewis, 9 High Street, Hitchin, Herts. 433,341.

"I-O-D" on label device, including portrait and words, "Dr. John Dee, Mortlake, 1527-1608," etc. ("I.O.D." disclaimed); for ointments (3). By E. M. Turner, 101A High Street, Mortlake, London, S.W.14. 432,573.

German Foreign Chemical Trade

A COMPARISON of the imports and exports of chemicals and drugs in the years 1922 and 1923, with special reference to the trade with the British Empire. The amounts are given in kilograms:—

	Imports		Exports	
	1922	1923	1922	1923
Acetaldehyde, paraldehyde	400	600	43,900	28,900
Great Britain	—	—	12,200	9,700
Acetic acid and acetic anhydride	13,500	37,900	7,297,800	1,597,200
Great Britain	—	—	930,200	266,300
Brit. India	—	—	870,000	—
Agar agar, isinglass	40,000	216,400	4,800	74,500
Japan	34,000	—	—	—
Alizarin, and alizarin dyes from anthracene	4,400	603,000	2,766,300	11,040,000
Great Britain	—	—	104,400	2,657,000
Brit. India	—	—	1,698,100	2,661,000
Ikaloids and salts	13,292	40,840	72,390	113,021
Great Britain	1,197	15,862	—	13,428
Japan	—	—	11,674	—
North Russia	—	—	6,441	—
Switzerland	9,749	14,685	9,247	—
U.S.A.	1,561	—	3,773	44,406
Loes and other plant juice for technical or medicinal uses	581,900	502,900	52,900	167,500
Great Britain	439,100	—	—	—
Brit. S. Africa	82,600	—	—	—
Ammonium carbonate	43,400	762,000	1,829,000	215,000
Ammonium chloride	23,500	298,100	7,070,100	4,639,400
Great Britain	—	—	1,217,100	—
Ammonium nitrate and lead nitrate	22,300	3,377,900	19,892,400	354,500
Great Britain	—	—	2,677,300	—
Anilin, anilin salts	11,800	156,000	3,212,700	7,265,000
Anilin and other coal tar dyes, not otherwise specified	454,400	2,577,000	36,011,500	64,288,000
Great Britain	—	223,000	467,500	11,016,000
Brit. India	—	—	2,608,400	3,823,000
China	—	—	8,924,000	19,063,000
Anthracene	144,100	1,286,100	672,200	277,400
Great Britain	88,900	—	152,600	—
Anthraquinone, nitrobenzol, toluidine, resorcin, phthalic acid, etc. scous acid, and salts	63,300	1,024,600	2,563,700	2,612,300
Great Britain	—	—	288,300	—
Strium nitrate	—	13,200	567,100	1,310,900
Great Britain	—	—	14,200	—
Boric acid, borax	4,421,800	7,380,800	1,384,100	3,433,200
Great Britain	2,989,200	—	—	174,100
Brit. India	—	—	109,200	—
Borides (potassium, sodium, iron, ammonium)	15,900	3,300	1,083,400	405,000
Czecho-Slovakia	15,600	—	—	—
Great Britain	—	—	96,200	89,000
U.S.A.	—	—	586,100	—
Bromine	14,100	—	93,900	238,600
Great Britain	—	—	38,600	—
Hungary	12,600	—	—	—
Coconut butter	—	94,000	7,380,600	2,012,000
Holland	—	—	2,364,900	—
U.S.A.	—	—	2,587,500	480,000
Calcium carbide	1,305,300	46,725,000	14,294,000	500,000
Great Britain	—	—	1,757,800	—
Amphor, manna	199,500	873,700	247,700	294,300
Japan	142,300	—	—	—
France	—	—	114,500	—
Cardamoms	26,400	—	—	—
Brit. India	11,700	—	—	—
Ceylon	12,300	—	—	—
Cassia, saffron and other spices	634,400	—	—	—
Brit. India	57,900	—	—	—
Ceylon	113,400	—	—	—
Castor oil	3,508,600	9,527,000	—	—
Great Britain	—	—	—	—
Belgium	1,640,700	6,290,000	—	—
U.S.A.	1,079,100	2,563,000	—	—
Cochineal	494,100	3,628,900	—	1,162,400
Brit. India	219,700	—	—	—
Chemical products, for medicinal use, not otherwise mentioned	7,400	80,000	733,100	1,291,000
Great Britain	—	—	—	131,000
Japan	—	—	169,500	78,000
U.S.A.	—	—	66,500	97,000

	Imports		Exports	
	1922	1923	1922	1923
Chloroform, chloral hydrate	200	4,400	222,300	184,600
Brit. India	—	—	15,800	—
Cinchona bark	2,415,900	3,262,000	26,600	146,000
Dutch E. Indies	2,267,600	2,780,000	—	—
Cinnamon	286,100	—	—	—
Ceylon	272,800	—	—	—
Citric acid	6,100	310,000	357,500	528,900
Great Britain	—	—	—	67,300
Cloves	211,100	—	—	—
Brit. E. Africa	148,200	—	—	—
Copper sulphate	31,000	—	5,272,600	—
Great Britain	10,800	—	—	—
Spain	—	—	969,200	—
Greece	—	—	759,000	—
North Russia	—	—	591,400	—
Cresol	264,200	200,700	356,300	740,200
Great Britain	138,700	—	—	—
Eau de Cologne	—	—	314,000	898,000
Great Britain	—	—	57,800	232,700
Brit. India	—	—	34,500	104,100
Ether	—	2,800	482,200	451,600
Galls	1,629,600	2,315,800	—	—
Turkey	281,900	—	—	—
China	1,251,300	—	—	—
Gelatin	109,800	332,000	718,300	1,463,000
Great Britain	—	—	58,800	265,000
Ginger	140,600	—	—	—
Brit. India	16,600	—	—	—
Glycerin, crude	106,500	5,374,000	129,800	2,237,000
refined	15,200	1,107,000	901,300	3,937,000
Hair lotions, mouth washes, etc., containing alcohol or ether	—	54,000	247,600	2,239,000
Indigo, artificial and synthetic	9,900	58,000	13,828,100	33,353,000
China	—	—	10,711,400	21,360,000
Great Britain	—	—	—	1,179,900
U.S.A.	—	—	—	3,461,000
Instruments, thermometers, barometers, chemical apparatus (glass)	1,700	—	249,900	1,532,000
Great Britain	—	—	20,300	275,000
Iodine (potassium, sodium, ammonium)	508	13,000	57,613	160,000
Great Britain	—	—	—	16,600
Iodine	153,262	258,000	31,106	92,000
Great Britain	1,503	—	—	—
Chile	134,577	210,000	—	—
Holland	3,473	—	—	—
Japan	7,459	—	—	—
Italy	—	—	5,935	—
Spain	—	—	3,034	—
Portugal	—	—	2,263	—
Lactic acid and lactates	8,500	12,000	1,361,800	2,049,500
Great Britain	—	—	372,900	764,200
Lead acetate	900	85,600	1,199,300	1,625,900
Great Britain	—	—	468,400	—
Brit. India	—	—	129,700	—
Lead carbonate	174,000	1,980,000	5,473,800	12,402,000
Great Britain	—	—	2,030,900	6,325,000
Linseed oil	29,237,900	3,164,800	1,539,300	574,400
Holland	26,943,400	—	—	—
Lithargy	239,800	364,300	1,327,200	6,202,800
Great Britain	—	—	481,300	2,128,500
Mercury and mercury amalgams	535,300	961,000	132,000	53,000
Great Britain	92,400	—	5,100	—
Italy	304,800	—	—	—
Spain	96,800	—	—	—
Milk sugar	—	—	125,000	—
Great Britain	—	—	14,600	—
Musk, civet, castoreum	57,260	—	1,188	—
Great Britain	1,252	—	—	—
Brit. India	287	—	—	—
Canada	715	—	—	—
France	1,042	—	—	—
Naphthalin	1,150,700	5,248,700	3,889,600	6,151,100
British India	—	—	211,000	—
Nutmegs	354,400	—	—	—
Brit. India	81,300	—	—	—
Olive oil	348,800	2,285,000	2,000	150,000
Opium	190,600	163,000	1,900	22,000
Oxalic acid, potassium oxalate	100	27,100	1,565,100	5,693,400
Pepper	2,700,500	5,281,000	—	—
Brit. India	1,032,000	1,590,000	—	—
Perfumed toilet articles containing alcohol or ether	—	54,000	501,900	2,239,000
Brit. W. Africa	—	—	46,400	301,400
Pharmaceutical preparations not otherwise mentioned	77,871	268,000	1,841,200	2,508,000
Great Britain	—	—	—	140,700

Westminster Wisdom

By the "C. and D." Parliamentary Representative

ALCOHOL FOR PERFUMERY

Major Boyd-Carpenter, Financial Secretary to the Treasury, last week received a deputation representative of the industries of the country using commercial alcohol for perfumery and other industrial purposes. The deputation laid before the minister the views of the trade as to the effect of the present duties on the class of alcohol named. Major Boyd Carpenter said he would lay the views of the deputation before the Chancellor of the Exchequer, who had previously expressed to a deputation from the Industrial Group in the House of Commons his sympathy with the proposal that duties on commercial alcohol should be reduced.

METHYLATED SPIRITS IN SCOTLAND

Mr. Wheatley asked the Parliamentary Under-Secretary to the Scottish Board of Health, on May 2, if representations have been made by the Scottish local authorities asking the Government to bring in legislation to deal with the increasing evil of the consumption of methylated spirits as a beverage; and, if so, can he inform the House what action is intended to stop this practice.

Captain Elliot said the reply to the first part of the question is in the affirmative. The possibility of preventing the consumption of methylated spirits as a beverage is at present engaging the attention of the Departments concerned, but the problem is one of considerable difficulty.

PRESERVATIVES IN FOODSTUFFS

Mr. A. Bennett asked the Minister of Health, on May 8, if his attention has been called to the representations of county and borough councils, based on the advice of their respective medical officers, that a limit should be placed on the use of preservatives in food; and whether he will appoint a Committee of investigation into the question, seeing that for many years the local authorities have been urging that action should be taken?

Mr. Chamberlain said the answer to the first part of the question is in the affirmative. He has already taken preliminary steps to appoint a small Committee to inquire into the general question of the use of preservatives and colouring matters in food.

DENTISTS' ACT AMENDMENT BILL.

In the House of Commons, on May 9, Lt.-Col. Dalrymple White, under the ten minutes rule, obtained the leave of the House to bring in a Bill—the Dentists' Act (1921) Amendment Bill—to amend the Dentists' Act, 1921. The Bill was read a first time. By the operation of the Dentists' Act a man must have reached the age of twenty-three years before he can sit for the modified examination. The promoters of this Amendment Bill claim that this cuts out a considerable number of men who had served in the war, and the Bill provides for the lowering of the age for which candidates can sit for the examination from twenty-three to twenty-one. The second reading of the Bill has been put down for Monday next.

LEPROSY

Sir C. Yate asked the Minister of Health on April 25 whether, considering the marked improvement in the condition of lepers that has been obtained as the result of treatment and research in the leper asylums in India, he will consider the question of taking steps to ascertain how many cases of leprosy there are in this country and what success has attended their remedial treatment?

Mr. Neville Chamberlain replied that the treatment and research referred to are being carefully studied in his Department, and he understood that they will be fully discussed at the forthcoming International Conference on Leprosy at Strassburg, at which this country will be represented by one of the medical officers of the Ministry. He was advised that information is already available as to the approximate number of cases of leprosy in this country, and that the treatment referred to in the first part of the question is being used in some of these cases.

	Imports		Exports	
	1922	1913	1922	1913
Phenol	2,632,700	4,155,200	363,000	3,601,700
Great Britain ..	1,919,000	—	—	—
Photo. plates ..	15,900	380,000	2,303,100	1,444,000
" films	2,300	250,000	667,300	280,000
" papers	26,500	72,000	1,448,300	1,541,000
Pomades, per- fumed fats and oils	14,100	92,200	160,600	1,116,700
France	13,300	—	—	—
Brit. W. Africa ..	—	—	34,100	556,100
Brit. India	—	—	7,000	—
Potash, caustic ..	216,400	42,000	28,021,600	44,113,000
Great Britain ..	—	—	7,013,800	—
Potassium chlorate ..	32,600	703,500	9,529,400	1,114,400
Potassium chloride ..	100	15,000	160,647,000	393,371,000
Great Britain ..	—	—	19,174,900	19,091,700
Potassium cyanide, sodium cyanide ..	—	3,000	1,307,900	6,678,000
Great Britain ..	—	—	81,400	—
Brit. S. Africa ..	—	—	131,800	1,611,100
Potassium man- ganate and per- manganate	770,600	694,100	886,700	1,521,400
Great Britain ..	—	—	89,200	—
Brit. India	—	—	29,600	—
Potassium nitrate ..	558,700	402,000	12,116,900	16,058,000
Great Britain ..	—	—	3,584,400	7,515,600
Potassium sul- phate	100,900	44,000	85,220,200	133,358,000
Great Britain ..	—	—	8,823,300	13,887,000
Quinine, and salts ..	1,853	13,000	58,844	206,000
Great Britain ..	161	—	—	—
North Russia ..	—	—	9,119	—
Rhubarb	30,900	142,900	17,500	45,100
Salicylic acid, so- dium salicylate, santonin, benzoic acid, sodium benzoate	11,100	69,000	629,500	1,284,000
Great Britain ..	—	—	31,400	216,000
Secret remedies ..	4,775	28,300	—	—
Brazil	991	—	—	—
Denmark	941	—	—	—
U.S.A.	2,156	—	—	—
Shellac	2,279,000	3,950,000	459,700	1,364,200
Brit. India	2,016,500	3,743,000	—	—
Austria	—	—	36,400	—
Czecho- Slovakia	—	—	44,700	—
U.S.A.	—	—	241,200	—
Silver salts	893	3,300	21,515	36,400
Soda, caustic	8,664,700	180,000	1,308,500	13,030,000
Great Britain ..	1,199,400	—	—	—
U.S.A.	6,910,300	—	—	—
Sodium bicarbo- nate	9,500	7,700	1,521,600	1,868,800
Great Britain ..	—	—	—	251,700
Sodium nitrate ..	31,485,500	774,318,000	524,100	27,507,000
Sodium sulphate ..	3,198,900	10,074,000	43,534,000	83,239,000
Great Britain ..	765,400	—	—	—
Spermaceti	12,300	22,100	1,700	400
Great Britain ..	4,900	—	—	—
Sugar (beet)	86,524,400	25,000	6,238,600	390,455,000
Great Britain ..	4,282,600	—	—	320,839,000
Tannin, gallic acid ..	5,200	116,400	315,000	780,400
Great Britain ..	—	—	17,500	155,400
Tartar emetic and salts of antimony ..	317,600	681,000	501,100	1,460,600
Great Britain ..	44,200	—	97,400	314,600
Tartaric acid	200	325,000	3,079,400	2,955,000
Great Britain ..	—	—	453,200	1,566,000
U.S.A.	—	—	814,300	—
Tin oxide	9,400	72,100	448,000	954,400
Great Britain ..	—	—	93,400	405,400
Tooth powders, cos- metics, per- fumed, etc.	24,763	113,000	1,498,300	708,000
Tragacanth	192,000	864,000	34,100	324,100
Brit. India	33,400	—	—	—
Vanilla	50,000	—	—	—
Waterglass	10,600	93,800	22,169,700	15,543,100
Argentina	—	—	3,953,500	—
Holland	—	—	4,087,000	—
Italy	—	—	3,573,100	—

UTILISATION OF MEDICINAL PLANTS IN FRANCE.—In connection with the movement for a more intensive utilisation of France's natural resources, the "Matin" of May 6 and 7 published the following notes, on a line with the title:—"Lime trees grow in profusion in France; chamomile flowers are plentiful. Nevertheless, in 1922, France purchased abroad 234,000 kilos of lime flowers, and 41,000 kilos of chamomiles."—"Wounded soldiers, pensioners, scholars, collect the medicinal plants which abound in the fields and woods of France. Follow the example of the boys' school of Villers-en-Argonne, which in one year realised 1,492,60 fr. from the sale of medicinal plants."

Trade Report

42, Cannon Street, E.C.4, May 10.

GENERAL business conditions in the Mincing Lane produce markets show little change from those prevailing last week, and prices of most items rather favour the buyer. The movement of crude drugs from the Port of London warehouse last month was above the average, and included some important items in fair-sized quantities, among them being 137 packages ipecacuanha, the stock of which is now very low, having been reduced to about 200 bales. There was also delivered 300 cases cardamoms, 550 packages camphor, 12 tons cascara, 827 packages beeswax, 250 cases Japan wax, 166 bags calumba, 100 bags cocculus indicus, 42 bags cubebs, 34 cases dragon's blood, 415 packages galls, 116 cases benzoin, 797 packages tragacanth, 3,077 packages copal, 1,500 packages gum acacia, 214 packages nux vomica, 43 chests rhubarb, 58 tons turmeric, 25 bales sarsaparilla, 679 bales senna, etc. The few changes in value include a further advance in turmeric. Annatto seed has arrived more freely, but is mostly sold to arrive. The West Indies appear to be sending no supplies. Honey is selling steadily, and is in fair supply. Menthol and camphor are quiet. Zanzibar cloves have been easier, but close steady. TN shellac has declined a further 5s. on the spot. Balsam tolu is still rising in the U.S. Among pharmaceutical chemicals there is little alteration to report, but a continued rise in Continental prices is noted. Boric acid is £5 per-ton cheaper. Fixed oils have been dull and mostly lower. These included cottonseed, coconut, linseed, palm, palm-kernel and soya oils. Turpentine is also lower. Other changes include an easier market for crude antimony and cadmium.

Higher	Firmer	Easier	Lower
Acetic acid Cassia oil Eucalyptus oil Lead acetate Lime oil (Jp.) Sodium nitrate Turmeric	Barbitone Coumarin Gamboge Heliotropine Lime oil (W.I.) (distilled) Palmarosa oil Rosemary oil Vanillin (Sp.)	Acid oils Almond oil (essent.) (s.a.p.) Antimony (erule) Cadmium Canary seed Copper sulphate Cottonseed oil Creosote oil Lemongrass oil (c.i.f.) Lubricating oils Naphtha Petroleum jellies Sodium acetate	Acetone Bleaching powder Boric acid Coconut oil Linseed oil Methyl alcohol Palm kernel oil Palm oil Pitch Rubber Shellac Soda caustic Soya oil Turpentine White oils

Exchange Rates on London

The following is a list of Continental and other exchange rates against the pound sterling on London prevailing at p.m. on Wednesday :-

	Par value	May 2	May 9
Amsterdam, chqs. fl.	12.107	11.83½-11.84½	11.80½-11.80½
Berlin .. marks	20.43	159,000-160,000	170,000-175,000
Bussels, chqs. fr.	25.22½	80.85-80.90	80.80-80.90
Ceylon, rup. ..	2s.	16½d.-16½d.	16½d.-16½d.
Constantinople pstrs	110	575-625*	750-770*
Rece .. dreh.	25.22½	375-385	330-335
Ally, sight .. lire	25.22½	94½-94½	96-96½
London, sight escudo	53½d.	2½d.-2½d.	2½d.-2½d.
Madrid, sight pes.	25.22½	30.35-30.38	30.30-30.33
Central, cable \$	4.86½	4.72½-4.72½	4.69½-4.70
New York, cable \$	4.86½	4.63½-4.63½	4.60½-4.60½
Paris, chqs. .. fr.	25.22½	70.00-70.10	69.90-70.00
Singapore .. t.t. dollar	25.22½	28½d.-28½d.	28½d.-28½d.
Switzerland .. fr.	25.22½	25.68-25.72	25.65-25.67
Venna .. kr.	24.02	320,000-335,000	320,000-330,000
Yokohama, T.T. yen	24.58½	25½-25½	25½d.-25½d.

* Nominal.

Cablegrams

NEW YORK, May 9.—Business is quiet. Mexican sarsaparilla has advanced to 30c. and balsam tolu to \$1.00 per lb. Canada balsam is also higher at \$12.50 per U.S. gallon. Peppermint oil in tins is easier at \$2.65. Taraxacum root is cheaper at 14c. per lb., and mercury is lower at \$67.00 per flask.

BERGEN, May 9.—The total catch of cod for the whole of Norway since the opening of the season amounts to 40,300,000, against 37,000,000 for the corresponding week of last year, and the yield of steam-refined medicinal oil is 72,263 hectolitres, against 64,081 hectolitres for the same period of 1922. Price of finest new medicinal steam-refined oil of 1923 crop is firm at about 95s. to 97s. per barrel, c.i.f. London.

Crude Drugs, etc.

ALBUMEN.—Spot sales of prime Chinese hen have been made at 3s. 1½d. per lb., and for May-June shipment sellers quote 3s. 1d. c.i.f.

ALMOND OIL.—French expressed sweet oil is quoted on the spot at from 1s. 5d. to 1s. 6d. per lb.

ANTIMONY.—American reports state that the market in New York has been affected lately by resales, but the tone here remains fairly steady. Quotations for special English brands range from £36 15s. to £38. Foreign refined is rather easier for shipment, some business having been done at around £24 10s. c.i.f., but warehouse lots are held for £27. In spite of the comparatively high terms asked recently for crude, some business has been reported at £22 c.i.f. and even less.

CADMIUM is distinctly easier, this being due to increased competition consequent upon the more liberal quantities coming in. Offers at 5s. per lb. are plentiful, and this is a fair quotation, although poor-grade material might be had at less.

CAMPHOR (REFINED) remains quiet, Japanese 2½-lb. slabs offering at from 3s. 6d. to 3s. 7d. per lb. on the spot, and May-June shipment at 3s. 6d. c.i.f.

CARMINE.—Fine quality French is quoted on the spot at 20s. per lb.

CASCARA SAGRADA.—The landings in London during April were 22 tons, and the deliveries 12 tons, leaving a stock of 26 tons, against 37 tons in 1923.

CHAMOMILES are selling in retail lots at from 545s. to 560s. per cwt. for Belgian.

COD-LIVER OIL.—Our Bergen correspondent writes on May 7 that the Finmarken codfishery last week also gave a fair result. The output of all the Norwegian codfisheries—compared with that of the previous years—is as follows:—

	Catch of Cod	Yield of steam refined cod-liver oil (Heet.)	Livers for Crude oil (Heet.)
April 28, 1923	37,300,000	63,167	14,036
April 29, 1922	33,700,000	60,666	10,390
April 30, 1921	33,700,000	51,803	8,613
May 1, 1920	31,200,000	46,600	5,000
May 3, 1919	18,500,000	24,200	3,100

The market is still quiet, but the price for finest non-freezing steam-refined oil is firm at from 95s. to 97s. per barrel c.i.f. London. It is said that large quantities of unfiltered steam-refined cod-liver oil have been sold both abroad and in Norway for industrial purposes. This is the reason why the price is maintained in spite of the rich yield.

GAMBOGE has been selling at slightly better prices of late, as the stock is reduced. Fair, slightly blocky Siam pipe is obtainable at £20 per cwt. The London stock is 43 packages, the landings in April being 13 and the deliveries 9.

HONEY.—Fair-sized quantities of West Indian have been received, including new-crop Jamaica, which can be had at about 50s. for light amber, 55s. for pale, and 60s. for fine white set, down to 35s. for dark brown treacly. Cuban is offered at 40s. to 42s. 6d. for amber setting, up to 45s. for pale setting, and 52s. 6d. for bright amber liquid.

IPECACUANHA.—The deliveries from the Cutler Street drug warehouse during April were good, being 82 Matto Grosso, 31 Cartagena, and 24 East Indian, making a total of 127 packages, whereas only 57 (50 Matto Grosso and 7 East Indian) were received, leaving a stock of 158 Matto Grosso, 41 Minas, 7 Cartagena, and 4 East Indian. Minas is, however, difficult to find in first hands, and doubt is expressed as to whether there are actually 41 bales in stock.

MENTHOL is quiet, with small sales of Kobayashi-Suzuki on the spot at 34s. per lb., and for May-June shipment 32s. 6d. c.i.f. is quoted.

MERCURY.—The undertone is very steady, although home-trade demand is still confined to small lots. There seems a little more confidence in the stability of the market, while some few inquiries have come forward from China for good lines for early shipment. Export business generally, however, is light. Business has been done early this week at between £10 and £10 5s. per bottle. The arrivals comprise 45,000 lb. from Italy.

NUX VOMICA.—Fair Cochin is offered at from 24s. 6d. to 27s. per cwt. as to quantity, sales of small lots having been made at the higher figure. Small lots of Madras are also obtainable, and bids would be considered.

OPIMUM is steady, 12 per cent. druggists' offering at from 14s. to 14s. 6d. per lb. on the spot.

CONSTANTINOPLE, MAY 1.—"During the period April 17 to date, arrivals were as follows:—Druggists', 2,379 cases; "softs," 133; Malatia, 13. The stock was: druggists', 249 cases; "softs," 83; Malatia, 10. During the past fortnight 94 cases of druggists' opium were sold locally at 1,100 to 1,250 piastres per ok. Of this total, we believe that 55 cases are for Japan, although the quality of the goods would not appear to bear out this assumption. For over a month there has been considerable talk of transactions with Japan, but up to the present we have no definite information proving that any business has been actually done. We know that it is becoming increasingly difficult to ship opium, since most steamship companies refuse to accept consignments or deliver bills of lading for Japan without seeing the actual import licence. Indeed, we have been told that a consignment of 50 cases shipped a short time ago has been brought back and unloaded at Marseilles, owing to the absence of the necessary permit. The increase in the exchange rate which took place recently caused a slight decline in prices. However, in spite of the fact that the demand for Europe is not very considerable, holders of stocks are maintaining their prices, since the spring rains are overdue. On the other hand, advices from Salonika state that the recent rains have been very beneficial to the sowings, and that a very good crop is expected."

RUBBER.—The market has collapsed since our last report, and within the course of a week prices have declined almost 2d. per lb. This remarkable weakness asserted itself towards the end of last week, when heavy selling by several brokers took place in consequence of the failure of one of the dealers to meet his engagements. This lead-off was quickly followed by many weak holders, chiefly "outside" operators, selling their rubber without limiting the price to the brokers, and, combined with the absence of orders from America, the market rapidly gave way. The position at the moment is a little stronger, the market having recovered from its worst, but confidence is sadly lacking amongst merchants, and a further decline may be expected at any moment. Needless to say, this striking decline has encouraged a fair amount of "bear" selling, but the first-hand importers are straining every effort to obtain a general tightening up of the export restrictions. In spite of this collapse in price, deliveries have again been substantial, with a decline of 1,500 tons in the stocks. Quotations (Wednesday, 5 p.m.): No. 1 standard crêpe and ribbed smoked sheet, spot and May, 1s. 1½d.; June, 1s. 1¾d.; July-September, 1s. 2d.; October-December, 1s. 2½d. Hard fine Para is weak at 1s. 2½d. per lb.

SHELLAC.—There has been a continuous easy feeling, due to unsettled and generally easier Calcutta advices of late and well-sustained liberal arrivals, while consumers are less eager buyers. During last month landings of 6,631 cases were reported, against deliveries of 4,863 cases, and the stocks thus increased by 1,768 cases to 9,265 cases. Spot market for usual standard TN orange quality closes at 315s. to 320s., good to fine second orange 340s. to 360s., superfine 380s., AC cakey 310s. and GAL 275s. Sales for delivery include TN for May at 300s., August at 255s. to 270s., and October at 247s. 6d.

STARCH PRODUCTS.—Dutch farina on the spot is 14s. 9d. per cwt., and 13s. 6d. f.o.b. for May shipment. Japanese No. 1 is 16s. per cwt. Superior Dutch dextrin is 22s. 6d., and No. 2 20s. to 21s. per cwt. on the spot.

TAMARINDS have been arriving rather more freely of late; new West Indian crop is expected this month. Spot value of fair is about 32s. 6d. per cwt., duty paid.

TURMERIC.—Fair Madras finger on the spot has advanced by 10s. per cwt. to 70s., and wormy in proportion. Cochin split bulbs have remained stationary in value, and 19s. has been paid for small lots; for a line less would be accepted.

Seeds, Spices, etc.

ALMONDS.—The Morocco crop is said to be promising well, and it is expected that quantity and quality will be good; on the other hand, reports from Sicily and Bari intimate that higher prices have been paid locally on account of damage to the crops by hot sirocco winds.

CLOVES are easy, with spot sellers of fair Zanzibar at 11½d. per lb. To arrive, the sales include March-May shipment at 11d. to 10½d. per lb. c.i.f., and May-June at 10½d. to 10½d. c.i.f. The week's statistics show 2,850 bales landed and 141 delivered, leaving a stock of 13,139, against 11,082 bales in 1922.

COCONUT (DESICCATED) is steady, fine selling on the spot at 47s. 6d. and medium at 50s. per cwt. To arrive, April-May shipment is 44s. c.i.f., and May-June 42s. 9d. c.i.f.

GINGER.—New-crop Cochin is being offered in limited quantities and prices are firm, both on the spot and forward. Cut is scarce, and it looks as if all kinds of Cochin will be considerably less this season than last. Jamaica is quoted dearer for shipment, and the spot market is still poorly supplied.

PEPPER is quiet at 4½d. per lb. for fair black Singapore on the spot. To arrive, May-July and June-August shipment is quoted at 4½d. c.i.f. Lampong on spot is 4½d., Tellicherry 4½d., and Aleppy 4½d. White Muntok is 6½d. per lb. on the spot, and 6½d. c.i.f. for May-July shipment. White Singapore is 6½d. spot, and May-July 6½d. c.i.f.

Essential Oils

A BETTER demand appears to be general this week. Sicilian lemon has been selling well, eucalyptus has been bought largely, an unusual feature at this time of the year, and higher prices are wanted. Cassia and Japanese mint are dearer. West Indian lime continues to advance; palmarosa is firmer. Spanish oils have been selling, and rosemary is rather better. Cochin lemongrass (c.i.f.) is easier, and essential oil of almonds is cheaper.

ALMOND.—Genuine distilled, s.a.p., is easier on the spot at 13s. per lb.

ANISE (STAR).—Several cheap lots have been sold at 1s. 9½d. per lb., but there is no change in the spot quotation at 1s. 10d. to 1s. 11d. The price to come forward is 1s. 10d. c.i.f. The s.s. "Titan" has brought 25 casks to Liverpool. This new method of packing is an attempt to reduce the cost of production.

BAY.—West Indian distilled has been in good demand, and 11s. per lb. is about the present spot value.

BERGAMOT.—The price quoted for shipment is about steady. Usual 37 to 39 l.a. quality is 11s. to 11s. 9d. c.i.f., and for some of the higher testing oils more is wanted. Spot is quoted at 11s. 3d. to 12s. per lb.

CAMPHOR.—White essential is steady at 75s. per cwt. in drums, and 85s. is wanted for cases.

CARAWAY.—Our statement last week in regard to the new Dutch crop of seed (July-August) is confirmed, and the price of oil, it is anticipated, will be cheaper by at least 10s. per lb. Spot stocks are low, and small quantities are obtainable at about 35s.

CASSIA is dearer on the spot for 80 to 85 c.a. at 8s. 6d. per lb.

CEDARWOOD is in good supply on the spot at the unchanged rates of 1s. 4½d. to 1s. 5d. per lb.

CINNAMON.—Ceylon leaf is unchanged at 4d. per oz. on the spot, and 3½d. c.i.f. to arrive. Mysore leaf is quoted at 7s. 6d. per lb.

CITRONELLA.—Ceylon has been in rather better demand, and spot-holders in some directions are inclined to advance their quotations to 3s. 3d. There are still sellers at 3s. 2d., and the c.i.f. price to arrive is unchanged at 2s. 11d. Java on the spot is unchanged at 3s. 11d. to 4s.

CLOVE.—English distilled is easy at from 6s. 9d. to 7s. 3d. per lb.

CORIANDEK.—Spot holders quote 80s. per lb.

EUCALYPTUS.—A good demand within the past few days has resulted in higher prices, spot-holders now quoting from 1s. 7d. to 1s. 8d. per lb. for 70 to 75 per cent. cineol, higher percentages being dearer in proportion. *Citriodora* is steady at about 8s. *E. Amygdalina* is held for 1s. in some directions, but there is practically no demand.

GINGERGRASS.—The spot value is 7s. 6d. per lb. for lots.

LAVENDER.—French oil, 38 to 40 per cent., is steady on the spot at 12s. 6d. per lb.

LEMON has been in better demand on the spot. From 5s. 9d. to 3s. 1d. per lb. is quoted, according to holder. There is no change in the c.i.f. position.

LEMONGRASS.—Cochin is quiet and unchanged at 2½d. per oz. on the spot; July-September shipment is easier at 2½d. c.i.f.

LIME.—West Indian distilled is very firm on the spot at 3s. 6d. to 3s. 7½d. per lb. Hand pressed is quiet at from 8s. to 8s. 6d.

MANDARIN.—Spot holders are offering at 24s. per lb. The price quoted c.i.f. to arrive is slightly above this.

MINT.—Japanese dementholised Kobayashi-Suzuki is dearer on the spot, with buyers at 6s. 3d., sellers quoting 4½d. per lb., and for shipment 6s. 1½d. c.i.f.

ORANGE.—Sicilian sweet is unchanged at 11s. per lb. the spot.

OTTO OF ROSE.—Bulgarian oils are generally firmer c.i.f. arrive, but prices on the spot are still very irregular. Unbranded oils are obtainable at from 21s. to 25s. per oz. or branded from 30s. to 32s. is asked. Good Anatolian offered at 22s.

PALMAROSA is firmly held at 18s. per lb. on the spot, the cheaper offers being withdrawn.

PATCHOULI.—Usual Penang quality is offered on the spot at 28s. 6d. per lb. For Mysore 33s. to 35s. is asked.

PEPPERMINT.—American natural tin oil is unchanged at 5s. 6d. to 13s. per lb., according to brand. H.G.H. in bottles is 20s. 6d. to 21s. Dutch blended oil is quoted 10s. 6d. to 11s.

PETITGRAIN.—The demand for Paraguayan is slow and dealers are willing to sell at 6s. 6d. per lb. in case lots. to 7s. is quoted.

ROSEMARY.—Spanish has been in better demand recently, there are no further offers below 1s. 8d. per lb. on the spot. For cases, up to 1s. 10d. is quoted. French oil is on the spot.

SANDALWOOD.—East Indian B.P. oil, 92-94 per cent. talol, is in steady demand, spot-holders quoting 25s. per lb.

SPICE.—Spanish has been in good demand, with spot held at from 2s. 9d. to 2s. 10d. per lb. in drums, and to 3s. 3d. in cases. French is quoted at 4s. 9d. to 5s. per lb.

Aromatic and Synthetic Chemicals, etc.

1. a-cetyl ..	2/9 to 3/6	Iso-eugenol ..	17/-
2. cine ..	12/- to 12/6	2. linalol ..	16/- upwards
3. cinnaldehyde f.f.c. ..	2/3 to 3/-	3. linalyl acetate ..	21/- upwards
4. eucalyptol ..	8/6 to 9/-	4. methyl salicylate ..	2/4 to 2/6
5. geranic aldehyde ..	5/- to 8/-	5. musk ambrette ..	35/- to 40/-
6. geraniol ..	9/6 to 10/-	6. musk ketone ..	30/- to 35/-
7. linal ..	15/6 to 16/-	7. musk xylol ..	8/9 to 9/3
8. linal ..	11/- to 12/-	8. phenylethyl alcohol ..	17/6
9. talol (Java citron- ..	5/6 to 9/6	9. safrol ..	2/- to 2/3
10. tropic ..	6/9 to 7/6	10. terpineol ..	2/3 to 3/1
		11. vanillin ..	23/6

Pharmaceutical Chemicals, etc.

There is a very marked difference between spot and Continental prices is well illustrated by the fact that quite a number of products that were originally imported from the source have now been re-exported to those markets. Taking into account the key industry duty, the f.o.b. Continental price is in many instances almost level with the spot value, and sometimes above it. Boric acid is 4s. per ton cheaper.

CETANILIDE is quoted at about 1s. 6d. for large quantities up to about 1s. 7½d. per lb. for small lots on spot.

MIDOPYRIN has been in very good demand for export, prices firm in the region of 13s. 6d. per lb.

ASPIRIN keeps up to its level of 3s. 3d. per lb. for spot of good brands in most quarters, but there are isolated offers slightly cheaper.

BARBITONE is now being quoted up to as high as 21s. per lb. on spot, on account of continued advances on the Continent.

BENZOIC ACID is seldom quoted below 2s. 3d. per lb.—business has been small of late.

BENZONAPHTHOL, 5s.; Betanaphthol, resublimed, 2s.; and benzaldehyde .03, 3s. per lb.; remain steady, with the markets dull.

BORIC ACID.—Borax Consolidated, Ltd., announce a reduction of £5 per ton, and XXX preservative by £4 per ton, making current quotations:—Boric acid, crystal, granulated or small flaked, commercial quality, £50, powdered £52, powdered extra fine £54. B.P. crystals £56, powdered £60, powdered extra fine £62 per ton. Preservative XXX £82, packed in free two-cwt. bags, carriage paid to any station in the U.K., in minimum lots as under:—Ex contract for not less than five tons . . . 5 cwt.; not ex contract . . . one ton. Borax is unchanged.

BROMIDES.—A fair volume of business has been transacted this week, with some offers f.o.b. Continent easier. Spot rates are quite steady at about 8½d. to 9d. for ammonium. Potassium, crystals and granular, 8d. to 9d. per lb., and sodium, crystals and granular, 9½d. to 10d. per lb.

CALCIUM LACTATE is steady, with the demand slow as offered at about 2s. as the top price.

CHLORAL HYDRATE is fully maintained at 4s. to 4s. 3d. per lb., for duty paid on spot.

CITRIC ACID.—The spot position of B.P. crystals is very steady, and business has been good, no doubt owing to the spell of hot weather lately experienced; spot offers are firm at 1s. 9d. per lb. For shipment, some importers are asking slightly more.

CREOSOTE B.P. is steadier after the recent declines and remains at 2s. 2d. per lb., with little doing.

CREOSOTE CARBONATE is offering at 10s. per lb., but very little interest is shown.

GUAIACOL CARBONATE remains almost lifeless, quoted nominally at 8s. 3d., but any sales would be at much lower levels.

HEXAMINE is steady on spot at 4s. to 4s. 3d. per lb., with supplies limited; Continental offerings are dear.

HYDROQUINONE has met with a good demand of late, with the price steady at 3s. 6d. per lb.

METHYL SALICYLATE keeps fairly steady, but some large parcels might be obtained at slightly under the quoted rate of about 2s. 6d. per lb.

METHYL SULPHONAL remains stagnant, with the quoted rate unchanged at 14s. 6d. to 15s. per lb.

PARAFORMALDEHYDE is firm on spot, as quoted at 4s. per lb., with Continental offerings dear.

PARALDEHYDE is irregular; some offers remain down at 1s. 6d. per lb., while other spot holders are asking as much as 1s. 8d. per lb.

PHENACETIN is a very healthy market on spot, with the price firm at 6s. 4d. to 6s. 6d. per lb. Continental prices are also firm.

PHENAZONE shows no sign of easing from its present level of about 7s. 6d. per lb.; a fair volume of business has been done.

PHENOLPHTHALEIN has been going up on the Continent for some time, and little is available on spot below 5s. 3d. to 5s. 6d. per lb.

POTASSIUM PERMANGANATE B.P.—The cheapest offers seen this week have been just a shade under 10d. per lb., and these were for big parcels.

RESORCIN is firm on the spot at 5s. 6d., although in no great demand. Continental offerings are dear.

SALICIN is quoted at 14s. per lb. in 28 lb. lots by makers.

SALICYLIC ACID holds up well at last week's high rate of about 2s. 3d. per lb. on spot.

SALOL keeps steady at 2s. 9d. to 3s. per lb. Demand on spot has not been great.

SODIUM BENZOATE is offering at about 2s. 6d. per lb. with some firms talking slightly higher figures.

SODIUM DIETHYLBARBITURATE remains stagnant, with the quoted price at 18s. 6d. per lb.

SODIUM SALICYLATE.—Some holders of spot continue to quote at 2s. 6d. per lb. for crystals and powder. The tendency is towards higher rates on account of the position on the Continent, where leading makers quote 2s. 8d. for powder and 2s. 10d. for finest crystals.

SULPHONAL is seldom inquired for; offers are being made in the region of 14s. 6d. per lb.

TANNIC ACID.—Leviss, according to quantity, is available on spot at 3s. 3d. to 3s. 6d. per lb., and at these rates the market seems steady.

TARTARIC ACID (B.P. crystals).—This week, spot offers have been made at 1s. 3d. to 1s. 3½d. per lb. Shipment prices are generally well up to these figures.

TERPENE HYDRATE holds steady on a rather dull market at about 1s. 9d. per lb.

Industrial Chemicals, etc.

In some items in this section there is a slight tendency towards easier prices for spot goods. This, in some instances, is due to the cheaper prices quoted in competition by the British makers, the latter in many cases now commanding the market both at home and, in some quarters, for shipment. The position of trade with Germany (occupied territories) is just as hopeless as ever. Continental prices are making business difficult in this market.

ACETIC ACID is moving sharply towards much higher prices, and the following rates quoted to-day may be much under those obtaining by the end of the week. 80 per cent. technical, £47 to £48; 80 per cent. pure, £48 to £50; 98 per cent. glacial, in barrels, £60; in glass demijohns, £73 to £75 per ton, ex wharf, London.

ACETONE is cheaper, with spot parcels offering ex wharf, London, in the region of £115 per ton for British Government specification.

ALUM is very steady, although little called for, at £10 10s. to £11 per ton; Continental rates are level with these prices.

AMMONIUM (ANHYDROUS).—There is a continuance of good inquiry, with importers and makers quoting round about 1s. 5½d. to 1s. 6d. per lb., for 99.95 per cent.

ARSENIC.—The outlook, although uncertain, continues to suggest easier terms, but there is no material alteration, current quotations for white Cornish powder ranging from about £71 to £72 per ton delivered London. Business in foreign has been virtually at a standstill, buyers and sellers being very wide apart. In the American trade all sorts of quotations are mentioned ranging between about 14c. down to as low as 11c. per lb., according to delivery, well into the second half of the year.

BLEACHING POWDER is offering by dealers at about £9 10s. to £10 per ton for 35/37 per cent. chlorine in hardwoods, and British makers are also quoting at about these figures.

BORAX.—British makers' prices are unchanged, as follows:—Commercial, £28; powdered, £29; extra fine, £30; B.P., crystals, £32; powder, £33; extra fine, £34 per ton, in bags, carriage paid in the U.K. Some dealers are quoting slightly under these rates for some grades. Boric acid (see Pharm. Chemicals).

COPPER-SULPHATE.—The weakness in copper has affected the market for sulphate, and the tendency has been towards ease. There has been, however, a fair business done, chiefly for export, the nearest f.o.b. quotations being £26 10s. to £27 per ton, less 5 per cent. for casks, and £1 per ton less for bags.

CREAM OF TARTAR keeps very firm, with quite good business about; the spot price of 99 to 100 per cent. B.P., is fully 92s. 6d. to 95s. per cwt. Shipment prices are on the same levels.

EPSOM SALTS are slow in being taken up, with offers of spot commercial quality at about £5 5s. per ton, in bags. B.P. is quoted at about £9 10s. per ton.

LEAD ACETATE.—Prices have again advanced sharply, and material is now very limited. Recent offers from the Continent have been up to £43 per ton, f.o.b. Some spot is quoted at: brown, £41; white crystals, £43, but these rates may move still higher.

LITHOPONE has been well inquired for, and with supplies from the Continent interrupted and curtailed, and much dearer, the spot price is firmly maintained at £9 per ton for 30 per cent. Continental red seal.

FORMALDEHYDE is going to higher figures, with supplies very low; the only offers seen this week have been from £90 to £92 per ton for 40 per cent. volume.

OXALIC ACID is on the slow side, and the price quoted at 6½d. per gallon seems easy.

POTASH (CAUSTIC).—The demand has not been at a good, but prices are fairly well maintained at the recent advanced level; some parcels might be obtained at about £34 10s. per ton for 88 to 92 per cent. solid, drums; other holders are asking up to £35.

POTASSIUM CARBONATE.—Buying is not at all brisk 90 to 92 per cent., £30; 96 to 98 per cent., £32 to £34 per ton. Some importers are offering the higher grades at the cheaper prices quoted.

POTASSIUM CHLORATE, so far as dealers are concerned is fully 3d. per lb.

POTASSIUM PERMANGANATE is very steady, and the demand continues with stocks not liberal; spot parcels might be obtained in the region of 10d. per lb. for commercial quality.

POTASSIUM PRUSSIAN seems to have picked up in demand since the price dropped to 1s. 4½d. per lb., and at this level the market seems quite steady.

SALTCAKE continues to be called for, for export, but the supply is still short and likely to remain so; home trade, £5 to £5 5s.; export, about £5 10s. per ton, f.o.

SODIUM ACETATE is now quoted by importers for forward delivery at about £24 10s. to £25 per ton.

SODIUM BICARBONATE continues to be quoted by British makers at £10 10s. per ton, in bags, carriage paid in the U.K., for home trade only.

SODIUM BICHROMATE, for home trade, is steady at 4½d. per lb., and a little more for most export markets. The prices are quoted by British makers.

SODIUM CARBONATE (washing crystals).—British makers and importers quote level at £5 5s. per ton, in bags; the former at this price for home trade only, carriage paid to destination; the latter, ex store.

SODIUM CHLORATE is offering from dealers at 2½d. to 2½d. per lb., but there is no great demand.

SODIUM HYPOSULPHITE.—Pea crystals for photographic purposes are very steady in the region of £16 per ton in one cwt. kegs, and there is a fair demand. Commercial quality, in casks, £10 10s. per ton.

SODIUM PRUSSIAN remains slow, and the price remains at the lower level quoted last week of 8d. per lb.

SODIUM SULPHIDE is now offering by importers at somewhat easier rates, with not much doing; 60 to 62 per cent. solid, in drums, £14 10s., and upwards; broken £15 5s. to £15 10s. per ton.

COAL TAR PRODUCTS, ETC.—Further reduction in some products is recorded this week, and generally business has been on the slow side. Pitch continues to move at cheaper rates. Naphtha and creosote oil are both again easier. ANILINE OIL AND SALT remain dull markets, with the usual offer at about 10d. to 11d. per lb., package free. BETANAPHTHOL shows little life—the price is almost nominal at 1s. 2d. per lb. PITCH.—The London quotation is now at 170s. per ton, showing a further material drop on the week. The market remains dull, and seems likely to go still further in buyers' favour.

PURE METHYL ALCOHOL is cheaper by far, as quoted by importers, wharf London, at £100 per ton. CARBOLIC ACID crystals are now very steady, and the price is fully 1s. 5½d. per lb., with no sign of any further weakening so far. CRESYLIC ACID is steady on a quiet market at about 2s. 3d. per gallon. CREOSOTE OIL is again cheaper, with the quoted price at 10d. per gallon, f.o.b. naked. PYRIDINE is kept at 12s. per gallon on spot with sales small.

market appears quite firm. HEXAMETHYLENE stands firm at last week's higher rates of 4s. to 4s. 3d. per gallon. DISINFECTANTS are steady at the old rates of 3s. 9d. per gallon, barrels free. NAPHTHALENE is offered at £20 per ton, and at this level the market seems steady; crude, £7 to £13; crystals, £18; powdered, £17 10s.; balls, £24; candles, £28; tablets, £28 per ton packages free.

Fixed Oils, etc.

THROUGHOUT business has been much quieter and prices in the majority of instances shows material declines. Linseed and turpentine, coconut and cottonseed and others are cheaper, with very little business about. There are no advances to record. **ACID OILS.**—A further slight fall in prices is recorded, but the market now seems quite steady. The demand is quiet. Coconut, 40s. 6d.; palm kernel, 40s. 6d.; groundnut is not offered. **CASTOR OIL.**—The higher rates recently arrived at are being maintained, with the market steady; pharmaceutical, 61s.; first pressings, 56s.; second pressings, 55s. per cwt. in ton lots. French medicinal is steady at 63s. per cwt. in cases and 60s. in barrels ex wharf, London. **COCONUT OIL.**—Prices current for all kinds show sharp declines on the week, with business persistently slow; deodorised, 50s. 6d.; Ceylon, 47s.; Cochiti, 45s. 6d. **COTTONSEED OIL.**—Prices are a shade easier again this week, but the tone of the market seems to point to a period of steadiness at the present rates; deodorised, 49s. 6d.; common edible, 45s.; soapmaking, 43s. 6d.; crude, 39s. 6d. c.i.f. **GROUNDNUT OIL** is steady and unchanged; deodorised, 52s.; crude Oriental, 45s. c.i.f. **PALM KERNEL OIL.**—Considerable declines in values are recorded, but the market seems steady at these cheaper prices; deodorised, 77s. 6d.; crude, 44s. **PALM OIL.**—Business has been dragging during the week, and the sales effected have been at the following slightly lower rates. Lagos, about 37s.; softs, 35s. 6d.; hards, 33s. This market has fallen sharply during the last three weeks. **RAPE OIL** is steady, with quoted rates unaltered; refined, 49s.; crude, 45s. **SOYA BEAN OIL.**—Deodorised as quoted on spot at 48s. 6d. is weak, with crude Oriental offering at the cheaper rate of 42s. 6d. c.i.f. **LINSEED OIL (raw, naked).**—All the week the market has been quiet and gradually moving to lower prices. The closure shows reductions for all positions: on spot, 46s.; May, 43s.; May-August, 40s. 6d. to 33s. 9d.; September-December, 38s.; Hull, on spot, 43s. 6d.; May, 43s.; May-August, 40s. 3d.; September-December, 38s. The weaker market is due to absence of American orders and decline in prices of seed at sources of supply, on the one hand, and heavy offerings from the Continent for near delivery. **TURPENTINE (American).**—This market has weakened during the week, which has been a dull one for business. Prices are lower in consequence of a similar move in Savannah prices. On spot, 100s.; May, 100s.; July-December, 74s. **WOOD OIL** is quoted sparingly on spot at 35s. per cwt., for Hankow in barrels: May-June, 120s.

LUBRICATING MINERAL AND BURNING OILS, ETC.—Lubricating oils for shipment show an easier tendency in some respects; so far, spot rates are unchanged. Naphtha and white oils are at lower prices. Business has remained rather dull and the general tone is rather in buyers' favour. **BENZOL** remains slow in demand, with the quoted price f.o.r. makers' works, in buyers' packages kept at 1s. 7d. per gallon. **BURNING OILS.**—Crude, No. 3, 8½d.; No. 2, 8d. per gallon, barrels free; market is unaltered and quiet. **FUEL OIL.**—95-910 gravity, £4 2s. 6d.; 950 gravity, £3 10s. per ton. x tank; dealers are quoting at unchanged rates. **SOLVENT NAPHTHAS** remain slow in demand and the lower prices quoted last week do not seem any too steady; 80-160, 1s. 5d., and heavy, 80-160, 1s. 4d. per gallon, drums extra. **NAPHTHA** gain this week shows a further weakening in prices, being quoted 1s. 6d. per gallon, naked, at makers' works; demand remains poor. **PARAFFIN WAX AND SCALE.**—The wax market keeps steady, but there has been no great volume of business about—2½d. to 3d. per lb., in bags, according to melting point. Scale prices in U.S.A. are very firm—spot offers ex wharf, London, are at 1½d. per lb. **PETROLEUM OILS.**—American water white, 1s.; American prime white, 11d. in barrels, net. Russian prime white kerosene is quoted in London at 6½d. to 7d. per gallon, ex tank; 7d. buyers' barrels, filled free; 10d. barrels free. **PETROLEUM JELLIES.**—Now white, £64; white B.P., £60; yellow, slightly easier £20 to £32; red vet. £20; ruby red, £21; dark stiff green, £13 per ton, ex wharf, London; the market shows some slight declines in some grades. **SPECIAL OIL**, for diesel and motors, 10d. per gallon, barrels free. The position is as last reported. **WHITE OILS:** Special No. 1, £42; No. 1, £36; No. 3, half-white, £30, drums free; No. 2, in barrels, £26 per ton. Prices for all grades show a sharp decline, ex wharf, London. **LUBRICATING OILS:** There has been a further decline of 25 cents in Pennsylvania and 10 cents in mid-Continent crude. Steam-refined cylinders can be had at lower prices, while filtered show a slightly easier tendency. Spot prices: Pales, £10 15s. to £25; reds, £13 10s. to £25 10s.; dark cylinders, £15 to £29; filtered cylinders, £9 10s. to £32; blacks, £7 10s. to £15, ex wharf, London, at 23 per cent.; soluble oil, £19 per ton, net. No. 1 Russian oil continues in good demand with the price at about 18 per ton, ex wharf, London.

ANIMAL, FISH OILS, TALLOW, ETC.—Tallows have been dull of late and prices have again moved to easier rates, with the tone still unsteady. Fish oils keep active on a firm market. Other products show no change. **BONE GREASE:** After the recent declines in values on spot this market seems considerably steadier and prices have been maintained during the past week of business. Pale water, 37s. 6d.; brown, 35s. 6d.; Lenzine, 35s. 6d. **NEATFOOT OIL** is quoted from 4s. 7d. to 5s., according to grades; the latter figure for South American, under 0.5 per cent. acidity. **LARD OILS:** American E.W.S., 1 per cent., 74s.; 2/3 per cent., 72s. 6d.; English, about 4 per cent., 65s. per cwt., ex wharf, London. **FISH OILS:** This market stands firm, and good business continues. **WHALE OILS:** Filtered pale, 37s. to 42s.; filtered light brown, 34s.; thickened, 42s.; thickened fish, 41s. 6d.; brown whale cake, 25s.; brown stearin, 24s.; refined Southern **SPERM OIL**, 35s.; best refined Southern sperm oil, 36s.; **SEAL OIL**, 32s. to 39s.; white **SEAL OIL**, 40s. 6d.; English coast **COD** is weaker at about 35s., in barrels, ex wharf, London. Cheaper quotations ex provincial ports. Japanese fish oil, in cases, c.i.f., for shipment, is not being offered; the price is nominal at about 30s. **TALLOW (Australian):** The market has shown a distinct tendency once more to move in buyers' favour, with business still slow. The recent auctions have been very unsatisfactory, both as regards prices and sales. Further declines in all kinds are registered this week, with the closure to-day very quiet. Fine beef, up to 44s.; fine mutton, about 44s.; good mixed, about 41s. to 41s. 6d.; inferiors, 37s. 3d. to 37s. 6d.

German Economic Situation

THE collapse of the mark has once again set in motion the usual sequel of increases in prices, wages and costs, with this difference, that a general feeling of nervousness, of groping about in the dark, is prevalent throughout the country. The political situation is obscure, and from the economic point of view the action of the Imperial Bank in successfully stabilising the value of the mark for a time has engendered a feeling of uncertainty concerning the future movements of the exchange. These unsettled conditions are reflected in the chemical and drug markets; buyers and avowed speculators are holding back, and although stocks in dealers' hands are running low, the latter are reluctant to sell, and are awaiting quotations from manufacturers. In South Germany the demand for chemicals has improved, but no large transactions have actually taken place. Following the fall of the mark, more inquiries from abroad have come in, without leading to very much business, and the opinion is held that most of these were dictated by curiosity to ascertain present German export prices. For the home market, prices show on the whole a firmer tendency, with a few advances. The following prices represent the average quotations for export, for one kilogram, unless otherwise stated, but many of these prices are merely nominal:—Agar agar, Kobe I., 5s. 9d., Kobe II., 5s. 3d. per lb.; balsam of Peru, Ph.G.V., 15s.; benzaldehyde, almost chlorine-free, Swiss francs 4.20, free to frontier; technical, containing 0.2 per cent. of chlorine, Swiss francs 3.70; citric acid, lire 17.50; coumarin, 24s. 9d.; cream of tartar, \$50 per 100 kilos; ergot, 3s. 9d.; glycerin, chemically pure, 26½ Bc., \$45 per 100 kilos; hexamethylene-triamine, \$1.70; hydroquinone, 7s. 5d.; milk sugar, £85 per ton; oxalic acid, £40 per ton; phenolphthalein, 14s. 3d.; salicylic acid, 4s. 6d.; tartaric acid, fl. 168 and 180 per 100 kilos; vanillin, 49s. Manufacturing circles have for some time been agitating for a decrease in the price of alcohol for industrial uses, and at a recent meeting of the Advisory Committee of the Imperial Alcohol Monopoly, a representative of one of the leading chemical works pointed out that the price charged in Germany for alcohol greatly exceeded that quoted in other countries. Finest rectified alcohol, it was stated, was being offered by Holland at 1,483 marks, and by Poland at 1,342 marks per litre, half the figure at which it is supplied by the German monopoly. "In foreign countries industrial enterprises get far cheaper alcohol: in England denaturated alcohol costs only 900 marks a litre. It is incomprehensible how alcohol should be so dear in Germany, the country with the lowest wages and freight rates, the cheapest potatoes and coals. The existence of several branches of industry depends on the price of alcohol, and with the prices now ruling it is impossible to export a large number of goods, thereby entailing the ruin of these undertakings." During the period when the mark was stabilised, manufacturers and exporters complained bitterly that, on account of the high price of German goods, they were unable to compete in foreign markets, except by resorting to "dumping." Apart from the more or less openly expressed hope that the mark would resume its former downward course, the removal of all restrictions on exports was insistently urged.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

Council Election

SIR,—Regarding the election now proceeding, it is assumed that the six retiring members of the Council will be returned, but neglect on the part of the electors may endanger the seat of one. As to the seventh vacancy, it seems to be quite a personal matter between the two new candidates, as their policies are practically identical, and they both appear to agree with the way the present Council is carrying on its work. My chief object in writing is to impress on the members of the Society the necessity of voting on this and every occasion, and getting rid of the apparent apathy that exists among members of the craft. I appeal especially to the young members to use their privileges and send in their voting papers at once.

I am, etc.,

PROGRESS (7/5).

SIR,—Will you be good enough to permit us to use your columns in order to draw the attention of the electorate to the candidature of Mr. A. R. Melhuish. All who read the published reports will have realised that throughout his service on the Council he has shown a soundness of judgment and a constructive ability which fully merit a renewal of their confidence. His work in connection with the Benevolent Fund, the Journal, finance, and the general policy of the Society, has exhibited an ability and a grasp of detail which entitle him to continued support. He is a member of the London Insurance Committee, and also of the London Pharmaceutical Committee, of which body he has held the office of chairman. He is a past-president of the London County Pharmaceutical Association, and of the Western Pharmacists' Association (of London), and is actively engaged in business on his own account. His experience has thus kept him in touch with all the every-day problems of the pharmacist, while his high ideals and forceful personality combine to make him an excellent representative. We therefore confidently solicit the vote and support of every member of the Society for our friend and *confrère*.—Yours, etc.,

W. E. D. SHIRTLIFF, President.

J. P. ELLERINGTON, Hon. Sec.

Western (London) Pharmacists' Association.

SIR,—If there are any chemists who have not yet voted for the Pharmaceutical Council election, I should like to point out that the North-Western Federation has lost Messrs. Deakin, Lord Gifford, and Rymer Young, all good men and true; and we trust that voters, knowing the huge industrial areas of Lancashire and Cheshire, and the scattered towns of Westmoreland and Cumberland, will not hesitate to give a vote to Hardy and to Simmou.

Yours faithfully,

F. W. BATES.

Manchester.

The Pharmaceutical Society's Report

SIR,—The annual report of the Pharmaceutical Society is interesting, and, one might almost say, unusual, in that it shows a record of something being done which should be of direct benefit to pharmacists in business, and that is the action taken with regard to the retailing of ammonia, acids, etc., by grocers and oilshops without complying with the legal restrictions. While admitting that it is impossible for the Society to have inspectors to call on every little shop, I certainly think more action might have been taken in the past. Now, however, that the police have been circularised by the Home Secretary on the matter it should be promptly rectified; the former are energetic enough in calling on chemists to inspect the Dangerous Drugs registers and similar things, and they should be equally so with

regard to oilshops. There is one point which might receive consideration before the next winter session—the advisability of holding some of the evening meetings on Thursdays. There are many pharmacists in a small way of business whose early closing day is Thursday, and, at present, they are debarred from attending.

Faithfully yours,

ATE ATY (7/4).

Checking in Dispensing

SIR,—Although recognising that your suggestions as to initialling or ticking each item in a prescription would afford an almost infallible means of securing accuracy, I do not see how it could be applied to panel work. This work starts a crescendo movement about an hour before closing-time, and ends in a grand finale with a frantic effort to get the door closed in compliance with the Shops Act. The crux of the problem, and one which the authorities will not deal with, is the late attendance of the doctors at the surgeries. Is it possible for any man to work with mathematical accuracy, or anywhere near it, under such conditions as I have indicated?—Yours truly,

CITO (5/5).

The Feebleness of Pharmacy

SIR,—It is always interesting and educational to see ourselves as others see us, and the remarks of Mr. Ellis at the meeting of the Sheffield Pharmaceutical and Chemical Society (*C. & D.*, April 28, p. 599) are enlightening as showing the way in which the pharmacist is being pushed lower and lower down the scale compared to other professional men. The trouble is that registered chemists are too small a body to create any impression on a Government; it is a peculiarity of modern conditions that legislation is provoked by weight of numbers and loudness of clamour, and the 19,000 or so qualified men are such a small item in the general population that they are conveniently ignored, however just their claim. To a large extent, also, pharmacists have themselves to blame, as it is extremely difficult to induce them to take concerted action. After years of experience of local meetings, I have found that, with one or two notable exceptions, they are more dead than alive, the meetings being attended by the officials and a few regular members, who form a very small percentage of the eligible chemists in the district.—Yours faithfully,

VITA (1/5).

Colouring Poisons

SIR,—The proposal to colour strychnine green has filtered through to the lay Press. The one thing, however, that appears to have been overlooked is the effect on the patient who is taking strychnine medicinally, especially if such person is of a nervous temperament. I have one customer who has a mixture consisting solely of liq. strych. and aq. dest. The prescriber particularly asked me to give no indication of its composition; in fact, I believe the patient is under the impression that he is taking some form of quinine. What will be the effect on this customer when he is presented with a green solution instead of the usual colourless mixture? If the principle is extended to other drugs, we shall have reds and purples and possibly art shades, and I can see the chemists' windows of the future dressed with such preparations as "Our Rainbow Tonic, guaranteed to buck up the nerves without colouring the most delicate skin."—Faithfully yours,

ARTIST (28/4).

Cost of Insurance Dispensing

SIR,—In reply to "H. D." (*C. & D.*, May, 5 p. 645), if I had the time to submit a lengthy costing sheet, you would not have the space to print it; but I would remind "H. D." that I was referring to insurance dispensing. For this work the so-called commercial tariff compels us to carry stocks and to turn over drugs and dressings at a cost price, but when it comes to paying wages we have to deal in £ s. d. as accepted in ordinary business circles. Therefore, the whole of the expense has to be charged against the fivepenny fee and not against the total amount, the first, and by no means the smallest charge, being the loss entailed on the capital locked up in the

drugs which are earning nothing. Further, to arrive at the true cost of doing the work it must be considered on its own basis, and not as a part of the business as a whole, in which case the less profitable transactions are balanced by the greater. If "H. D." will remember these points he will find that I have not over-estimated. In some quarters the idea is entertained, and, indeed, quoted in favour of a reduction of fees, that the profits on insurance work show a 50 to 60 per cent. gross, but this figure is arrived at by conveniently ignoring the facts I have noted above; the practical proof is afforded by the non-existence of pharmacies catering solely for the insured person.—Yours faithfully,

FIVE DAYS FOR NOTHING (5/5).

Storage of Gaslight Papers

SIR,—I should be glad if any of your readers could give a few particulars on the stocking of photographic gaslight papers. Although I do a fair amount of photographic business, I find that the bulk of sales is in self-toning papers, and the difficulty arises from the fact that although it is necessary to keep a range of gaslight papers, the turnover is not rapid enough to ensure their speedy renewal. In spite of the claims of manufacturers, and in spite of the fact that I store them under what I believe to be the best conditions available, gaslight papers do not stock well. To prove it it is only necessary to put a packet on one side for a few months and then print off, develop, and note the results.

I am, etc.,

—GASLIGHT (29/1).

The Future of Insurance Dispensing

SIR,—The daily Press has been giving a good deal of prominence to the possibility of the doctors taking drastic action if their capitation fees are reduced. There is a big note of warning to panel pharmacists in all this preliminary agitation. I think that the doctors will be able to drive quite as good a bargain for themselves as they have done before; and when this is accomplished, the authorities, searching for economy, will come down very heavily on the suppliers of drugs and appliances, and I would venture to prophesy that the next terms will approximate very closely to the pre-war twopenny dispensing-fee for mixtures, etc. The arguments for such an offer will probably be based on the relative proportions of cost of drugs and dispensing-fees; and a special feature will be made of the fact that on these figures the chemist is supposed to be getting about 50 per cent. gross profit—and it is noteworthy that the monthly returns are now shown in pence and separated into drugs and fees to show the respective amounts. This attitude, of course, will entirely ignore the fact that the drug bill has been cheapened to the lowest limit, while the chemist's overhead expenses, which are much heavier for dispensing than for any other branch of the business, show no sign of dropping appreciably. To get the true value of the work, the drug bill (being turned over at cost or less) should be set aside and the expenses deducted from the fees.—Yours faithfully,

TWOPENCE (7/4).

Pharmacy in the Army

SIR,—As might have been expected, the Pharmaceutical Society have had "a slap in the eye" from the Army Council, and I do not suppose for one moment that the Army authorities care two straws for the Society, its report or its recommendations. Whether we should achieve any better results by taking the matter to Parliament is doubtful; our adventures at Westminster have an unhappy knack of turning out to our own detriment. When in business abroad in pre-war days I was familiar with several Army dispensers, and their knowledge of pharmacy was entirely absent. One of them once came to me for Easton's syrup, and when I gave it to him he refused it on the ground that it was not right; on asking him what he expected it to look like, he said it should be a thick, brownish fluid! As to giving a pharmacist a commission, I do not think we shall ever see such a step.

Yours truly,

ARMADA (12/3).

Dispensing Difficulties and Notes

A Suspension Query

SIR,—Do you consider 3ij. mucilag. tragac. enough or too much in the following mixture, using mag. carb. pond.? The mixture as previously dispensed appears to have been compounded with pulv. trag. co.:—

Mag. carb. ...	...	...	3ijj.
Sodii. bicarb. ...	...	...	3ijj.
Bismuth. carb. ...	...	...	3j.
Spt. ammon. arom. ...	...	...	3iv.
Mucilag. tragacanth. ...	...	...	q.s.
Aq. menth. pip. ...	...	ad.	3viii.

Yours faithfully,

N. D. C. (19/3).

[The quantity of tragacanth mucilage which you suggest is just right. We think, however, that you are in error in using heavy magnesium carbonate. The customary procedure is to employ light carbonate for mixtures, and heavy for powders. The light makes much the nicer mixture. The difference in appearance produced by two fluid ounces of tragacanth mucilage or one drachm of compound powder in this case is not noticeable.]

A Puzzling Difference

SIR,—I enclose a copy of a prescription of which the customer refused to take delivery, saying that it had previously been a clear mixture, with no colour or sediment. Can you explain what had been dispensed?—

Glycerin. cinchona .	...	...	3j.
Acid. phosph. dil. ...	...	...	mx.
Liq. strych. ...	...	...	3ijj.
Aque ad. ...	...	...	3j.

M. Ft. haust. Little, 3viii.

Yours truly,

NEAPOLITAN (6/3).

[The mixture, when compounded as written, is clear, without deposit, and of a colour like medium sherry. It could not be without some colour. We used glycerin of cinchona, B.P.C. Reference to about a dozen pharmaceutical treatises of various nationalities does not afford mention of any other. No doubt the difference between your mixture and that of the previous compounder is due to variation in the formula or manipulation of this preparation.]

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

Appreciations

Please allow me to say that in your valued journal I have found a gold mine.—J. R. M. M. (30/4).

It is a pleasure to send this subscription. The value derived from it increases with each succeeding year.—F. A. L. (28/4).

Accurate Dispensing

All substances placed in a bottle which will dissolve in the vehicle should be dissolved before the medicine is handed to the recipient, whether a real patient or otherwise. Cases of the contrary state of things happen occasionally in the hurry of business, but they should not.—J. S. (9/5).

Sale of Tablets Containing Strychnine

It is the custom of very many chemists to sell tablets containing strychnine (such as compound aloin and Easton's syrup tablets) without observing the formalities of the sale of poisons law. Any logical person would consider that a qualified chemist would be the last person in the world to disregard the provisions of the law in respect to such sales. A gentleman refused to sign our poison-register to-day, and left our premises in a high state of dudgeon. He declared that compound aloin tablets were a simple aperient, and that he had bought them in many districts without signing for them.—J. T. B. (8/5).

Legal Queries

T. D. (1/5).—Herbs or mixtures of herbs which have not been medicated in any way are not liable to medicine-stamp duty, even if recommended for the cure of ailments.

F.N. (32/10) asks whether National Health and Unemployment Insurance contributions are payable in respect of an errand boy under the age of sixteen. [Until the boy is sixteen he is not insurable.]

Alpha (30/4).—Lactopeptine is liable to medicine-stamp duty because it was formerly patented, and there are proprietary rights in the name. Genaspirin tablets are not subject to medicine-stamp duty because they consist of a pure or entire drug.

Buller (30/4).—A dispensing doctor is not bound by the Pharmacy Acts to enter medicines containing statutory poisons which he dispenses in a prescription-book. He must, however, make suitable entries when "dangerous" drugs are dispensed, i.e., prescriptions containing the amounts which come within the percentage limits of the Dangerous Drugs Act.

Scrum (2/5).—The term of the lease is too short to make it a valuable asset in the sale of the business. Leases in connection with business premises generally extend to 21 years, a period which gives the tenant an opportunity to recoup himself from the business which he has built up on premises belonging to another person who cannot be forced to extend the period of the lease.

P. D. (7/5).—The Home Office notice referred to in the *C. & D.*, May 5, p. 632, affects only Section 5 or "poisonous" substances, and covers all liquids containing 3 per cent. or less than 3 per cent. phenols, so that the term "not more than" is quite correct. Liquids containing more than that amount come in Part II. of the Poisons schedule, and can only be sold retail by a qualified chemist keeping open shop for the sale of poisons.

Salol (64/31).—Until the Dangerous Drugs and Poisons Bill now before Parliament becomes law, it is necessary to copy in the prescription-book all National Health Insurance prescriptions containing poisons. The dose of "dangerous" drugs is not the guide for entering into the "dangerous" drugs register, it is the percentage which is the governing factor. If the percentage in the prescription dispensed comes within the limits, the prescription must be entered in the usual way. If outside the limits the prescription still requires entering in the prescription-book.

Epiphytes (4/5).—(1) The label you send containing what is presumably a *bona-fide* declaration of the constituents of the mixture converts the article into a "known, admitted, and approved" remedy, which you, as a chemist, may sell without a medicine stamp. If, however, you claim any proprietary rights in the title the exemption referred to may not apply. (2) Chloroform and all preparations or admixtures containing more than 20 per cent. of chloroform are poisons within the meaning of Part II. of the Poisons Schedule. (3) Chloroform is not usually classed as a demulcent. By the latter term being understood such articles as acacia, liquorice, linseed, etc.

Licence (2/5) has two shops, for one only of which he holds a wine "off" licence. He is often asked for such liquids as Hall's wine, Wincarnis, etc., at the shop which is unlicensed, and he wishes to know if he can accept such orders there and deliver the goods direct to the customers from that shop. If not, he asks if there is any other course he can follow to meet the needs of the case. [No. Orders for goods for the sale of which a licence is required can only be lawfully accepted at premises for which an appropriate licence is held. Nor would it be safe to keep at the unlicensed shop for delivery such articles, even if sold at the licensed shop, unless the consent of the Commissioners of Customs and Excise were first obtained.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

W. A. S. (1/5).—WATER DISCOLORATION.—It is probable that the local water supply is peaty, which would account for the troublesome discoloration which takes place in the boiler of the kitchen range. The best treatment would be to add some chalk or lime to the boiler, so as to form a film on the surface of the iron. This should prevent the darkening which is due to the action of the peat on the iron.

L. A. K. (30/4).—MOTOR SPIRIT.—Some years ago the addition to petrol was suggested of a small proportion of picric acid, with a view of increasing the force of the explosion in the cylinders of motor engines, but the corrosion which resulted made the method expensive. Ether and alcohol or Startol (Howards & Sons, Ltd.) are now used for the same purpose, but these additions add to the cost of the motor spirit.

Star (4/5).—THE CARDED SPONGES which have become soiled by exposure can be restored by washing with warm soap and water. If dark in colour this could be followed by a bleaching process, using potassium permanganate (2 dr.) and hydrochloric acid (2 oz.) in water (2 gals.).

B. (3/5).—We have no face-powder formula of the kind you require.

Scrum (2/5).—LEVELLING FLOOR.—The local builder would provide a suitable cement for filling up the hollows in the wooden floor. One of the magnesian cements would be best for the purpose, but no cement would be entirely satisfactory in the circumstances to which you refer.

H. A. (17/4).—APERIENT SYRUP.—It is not considered advisable to combine phenolphthalein with other substances as an aperient.

J. M. B.—PRESCRIPTION PRICE.—Your price for the mixture is quite correct, although the total is arrived at somewhat differently. Priced according to the *C. & D.* dispensing costing system, it is as follows:—

Tr. valerian. ammon.	...	...	...	5vj.	4.5
Tr. nucis vom.	...	...	...	3j.	1.0
Spt. ammon. co.	...	...	...	3iij.	2.5
Pot. bromid.	...	...	...	5iiss.	0.5
Syr. aurantii	...	...	...	5vj.	4.5
Aq. chlorof.	...	...	ad	3vj.	3.0
Container	...	...	...	...	2.5
Dispensing oncost	...	...	...	...	8.0

25.5

Charge, 2s. 3d.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," May 15, 1873.

Women M.P.S's

The following is the motion of which Mr. Hampson has given notice for the annual meeting of members of the Pharmaceutical Society:—"That inasmuch as the Examiners of the Pharmaceutical Society are empowered by law to test the qualifications of persons—female as well as male—before the State permits them to be registered as persons fitted to 'keep open shop, to practice pharmacy, and all persons having passed the Major and Minor examinations are eligible for admission into the Society, as members and associates, that they may exercise control and direction over the working of the Pharmaceutical Society, and have the benefit of its associative influence and protection, the meeting is of opinion that it is contrary to the plain intention of the statutes to refuse admission to female persons who having conformed to the legal tests of the Examiners and the regulations of the Society, may desire to become connected with the Pharmaceutical Society in the capacity of apprentices or students, or associates or members."

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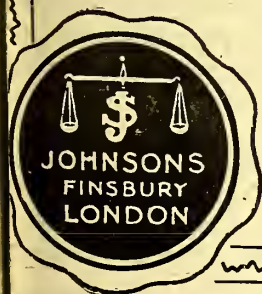
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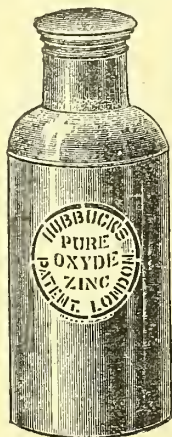
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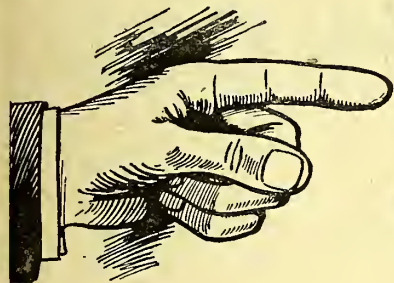
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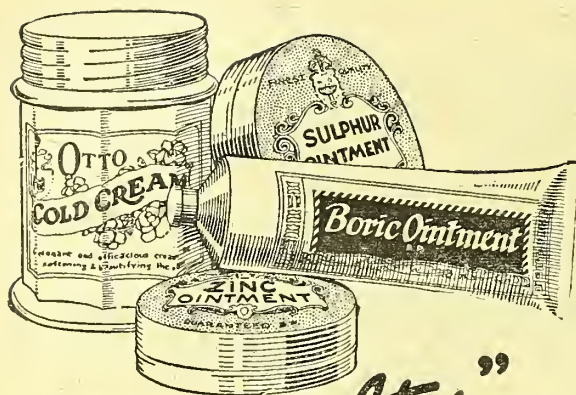
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NUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopœia.

(Wholesale only)

Samples from Head Office, Thomas Street, DUBLIN, or London Office, 74 Great Tower Street, LONDON, E.C. 3.

ESTABLISHED 1772

HENRY'S CALCINED MAGNESIA

Continues to be prepared with scrupulous care, in the greatest chemical purity by

Messrs **THOMAS & WILLIAM HENRY**, 11, East Street, St. Peter's, Manchester.

And is sold in Bottles, authenticated by a stamp bearing their name.

Trade Mark, Henry's Calcined Magnesia.

New York: Messrs. SCHIEFFELIN & CO, William Street.

PRICE 2s. 9d.

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BRITISH OWNED.

SLACK & BROWNLOW,
Town Mills, Tonbridge, Kent.

"Brownlow" Filter
FILTRATION THROUGH CYLINDERS OF KIESELGUHR



Crystal Pure Water.
Free from Disease Germs.

AGENTS WANTED EVERYWHERE.
Catalogue on Application.

NOW THAT SUGAR IS SO MUCH DEARER
WHY NOT PUSH

SACCHARIN TABLETS?

WE CAN SUPPLY YOU WITH SOME
ATTRACTIVE WINDOW STREAMERS

FULL STRENGTH $\frac{1}{2}$ GRAIN 330 IN EACH TABLET.

Packets of 100 tablets	-	10/- doz.
Bottles or tins of 100 tablets	-	11/- doz.
Packets of 200 tablets	-	19/- doz.
Bottles or tins of 200 tablets	-	21/- doz.
Bulk 8/- per 1,000.		

Write for Special Price for 1 gross lots.

Sole Proprietors and Manufacturers :

C. R. HARKER, STAGG & MORGAN, LTD.

DEVON WHARF AND BELL WHARF,

EMMOTT STREET, MILE END, LONDON, E.1.

The

4¹/₂ d.

Bismuthated
Magnesia

Trial Lot only

5/- P.O.
brings

2 doz. and 1 doz. free.

MACSONS, LTD.

Wholesale Chemists,
BLYTH, near NEWCASTLE-ON-TYNE.

THE WORLD'S BEST

HONEY

(New Zealand)

"IMPERIAL BEE"

The FINEST QUALITY THAT BEES PRODUCE

BUILD your HONEY TRADE on a sure FOUNDATION

QUALITY means REPEAT ORDERS.

cases 48×1's .. Screw-top Glass .. 12/9 per doz.

" 48×1¹/₂'s .. " .. 7/6 "

" 48×1's .. Monopots 11/3 "

" 48×1¹/₂'s .. " 6/- "

" 30×1's .. Glass Tumblers .. 12/9 "

" 18×1¹/₄'s .. Glass Toby Jugs .. 17/9 "

CARRIAGE PAID TO ALL PARTS OF U.K.

Special quotations to the Wholesale Trade and large buyers.

Quotations for Bulk (cases of 2/60 lb. tins) of all grades on application.

ew Zealand Honey Producers' Association, Ltd.

Sole European Agents :

A. J. MILLS & CO., Ltd.

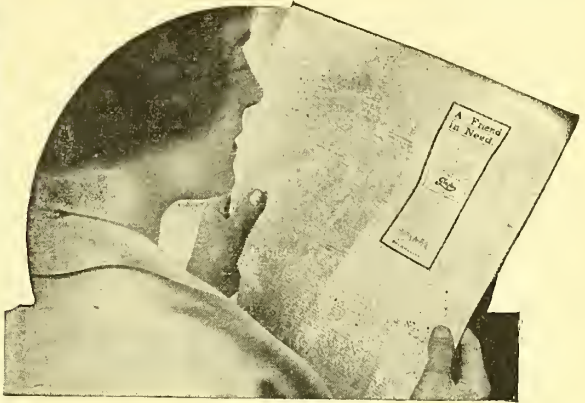
Produce and Canned Goods Department

, TOOLEY STREET, LONDON, S.E.1.

And at

Birmingham, Bristol, Cardiff, Glasgow, Leeds, Leicester,

Liverpool, Manchester, Newcastle-on-Tyne.



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AN ATTRACTIVE OFFER

No man, be he Doctor, Lawyer or Pharmacist, ever loses self-respect by being a better Salesman. Pharmacists have greater opportunities for increasing their good-will and business turnover through dignified Advertising than have ordinary retailers.

you with ideas, first-class lay-outs, copy, blocks and all the necessary printing instructions for advertising in your local paper, or for a series of "Monthly Messages" for house to house distribution, and, in certain circumstances, will pay our share of the cost of the space.

Will you allow the Glaxo Co-operative Advertising Department to prepare for you, without charge, some personal advertising matter? We can supply

Fill in the coupon to-day, and we will send you more definite details of our Co-operative Advertising plans.

Some Unsolicited Testimonials

- Messrs. —, Lancashire, write:
"We very much approve of and appreciate your scheme for local advertising."
- Mr. —, M.P.S., Buckinghamshire, writes:
"I shall insert four of the advertisements you have been good enough to draw up for me."
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"When I came here I tried advertising, and as a result added about £1,000 per year turnover."
- Mr. —, M.P.S., Yorkshire, writes:
"I am pleased with the scheme, and feel sure that it will be to our mutual benefit."

CUT THIS OFF AND POST TO-DAY TO

Glaxo

CO-OPERATIVE ADVERTISING DEPARTMENT,
56 OSNABURGH ST., LONDON, N.W.1.

Please send me full particulars of your Co-operative Advertising service. I attach my printed address label hereto,

C. AND D., MAY 12



Antiphlogistine
TRADE MARK

TWO SORTS NOW.
HUMAN AND VETERINARY.

MINIMUM PROFIT, 25 per cent.

Extra discounts on orders for £2 and over. Carriage paid on ALL orders.

*Our "best terms" quotation will interest you.
We invite you to write for it TO-DAY.*

THE DENVER CHEMICAL MANUFACTURING CO.
St. Ann's Road, London, E.3.

Dr. Bengué's Ethyl Chloride for Local and General Anaesthesia in Glass and Metal tubes.

Large selection of tubes.

Anestile for Local Anaesthesia.
Narcotile for General Anaesthesia.
Methyl Chloride.

Ask for Special Terms and Showcards for Dr. Bengué's Balsam.

Dr. BENGUÉ & CO., MANUFACTURING CHEMISTS,
52 Charlotte St., LONDON, W.1.

Why not Advertise!

in your Local Paper—
it pays. See the interesting Scheme offered to up-to-date Chemists on the previous page.

Write to the "Glaxo" Local Advertising Dept. to-day.



NEW-SKIN
Trade Mark.

**KNOWN ALL OVER THE
WORLD AS THE
STANDARD LIQUID
PLASTER.**

TRADE PRICES.

Retail Price.		Trade Price.
10½d. Pocket Size...	... ..	8/5 doz.
2/- Medium Size ...	... ..	19/2 "
3/- Physician's Size ...	... ..	28/9½ "
£3 and up Carriage Paid.		

Order through your wholesaler or direct

Sole Agent for British Isles and Colonies—

J. E. GARRATT,
96 Southwark Street, London, S.E.1.

Sulfluid

RAPID CURE. INSTANT RELIEF.
RINGWORM, SCABIES, IMPETIGO
SOVEREIGN CURE FOR
ECZEMA AND OTHER SKIN DISEASES.

The principal ingredient in this quick and certain cure for skin diseases is Sulphur in a liquid form hitherto unobtainable. Owing to its extraordinary power of penetration it reaches the root of the trouble and can be guaranteed to effect a cure of the most stubborn case of ringworm within 14 days—Scabies and similar diseases in very few applications. It is guaranteed to be non-poisonous, non-corrosive and non-irritant to the most tender skin.

RETAIL PRICE, 3/-; TRADE PRICE, 27/- per doz. (P.A.T.A.)

Packed in half-dozens in attractive display cartons.

HOUSEHOLD OINTMENT

Sulfluid Household Ointment is the same potent solution in ointment form and will be found invaluable in the treatment and rapid cure of minor skin troubles, such as cuts, grazes, burns, scalds, chaps, boils, pimples, and will impart a smoothness and freshness to tender skins in cold or bad weather.

RETAIL PRICE, 1/9, 3/-; TRADE PRICE, 15/9, 27/- (P.A.T.A.)

Packed in dozens in attractive display cartons.

Mrs., PARKER, WARD & CO. Ltd. (124), Windsor House, Victoria Street, S.W.1.

Sole Distributing Agents to the Wholesale and Retail:
W. EDWARDS & SONS, 14-18 NILE STREET, CITY ROAD, N.1.

IDOZAN

This new colloidal form of Iron is widely prescribed by members of the Medical Profession and gives astonishingly good and prompt results in the treatment of Anæmia.

Retail 5/- per Bottle.

You may recommend it with confidence and sell it with profit.

Write for particulars and acquaint yourself with its worth

Order through your Wholesaler.

Stocked by BLEASDALE,

LD. (York) — SANGERS—

RAY ROBERTS—EDWARDS

RAIMES CLARK (Leith)—

JOHN THOMPSON (Liver-

pool) — JAMES WOOLLEY

(Manchester) — BARCLAY &

ON (London), and others.



HAS. ZIMMERMANN & CO. (Chem.), LTD. Ferrosan Dept.
10 ST. MARY-AT-HILL, LONDON, E.C.3.



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Good products and powerful advertising are familiarising thousands of people with this trade-mark.

It stands for unswerving adherence to quality.

That is why retailers who are handling the products of the Hygienic Research Co. Ltd. are obtaining continuous profits.

These products are :—

“Ruby Balm,” “Ruby Balm Oils,”
“Veterinary Ruby Balm” and
“Germicidal Veterinary Dog Soap.”

You will find them all advertised in the

“Daily Mail” and “Daily Mirror.”

If you are not yet handling Hygienic Products, write us for details of our offer to the trade.

The Hygienic Research Co. Ltd.

100 - 106 Moorgate Station Chambers,
London - - - - - E.C.2.

Telephone : London Wall 670

Factory : Priory Road, Dartford.

Telephone : Dartford 87



BEECHAM'S PILLS

WHOLESALE PRICES.

Beecham's Pills:

1s. 3d. size	10s. 6d. per doz. net.
3s. 0d. ,,	26s. 6d. ,, .. .
5s. 0d. new size, contains double the quantity of 3s. box,	50s. 0d. ,, .. .

Beecham's Cough Pills:

1s. 3d. size	10s. 6d. per doz. net.
3s. 0d. ,,	26s. 6d. ,, .. .

Minimum quantity £5 value. Packages FREE. Carriage PAID. CASH WITH ORDER.

Cheques to be made payable to THOMAS BEECHAM, and crossed "Westminster Bank, Ltd., St. Helens."

CACHETS Morstadt System.

All Sizes from 000 to 2.

At 1/6 per box of 1,000, nett cash.

PHELPS & SMITH, 151 KINGSLAND ROAD
LONDON, E.2.

FAX

INDIGESTION CURE.

Liberal Terms to
Wholesalers
and Retailers.

FAX, LTD., Manufacturing Chemists, **SALISBURY**

REAL SILVER LEAF

As supplied for many years to the leading Houses for Pills, Cachous, &c.

We also supply
GOLD LEAF AND GOLD POWDERS
WHOLESALE ONLY.

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ALL CHEMISTS
SHOULD STOCK

ABDINE

THE GOLD MEDAL HEALTH DRINK,

Quick Seller. Big Profits. Over 40 years' Reputation.
"Abdine" is the most popular Health Drink, superior to all
Mineral Waters. The Original and only genuine Fruit Drink.

Reduced Price List can be had on application.

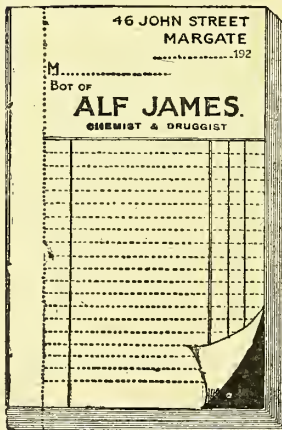
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You never know

what may happen by not keeping a duplicate copy of all your correspondence. It's so easy to do this with the 'Charterhouse' Duplicate Order or Memo Book which is made only with 100 printed tear-outs 8 by 4½, and 100 plain duplicates. 1st leaf, good white bank paper, printed any ordinary heading, and perforated. 2nd leaf, white paper, plain and fast. Wired binding, stout Kraft flush paper covers; one sheet of carbon per book.

The "Charterhouse"

Duplicate Order or Memo Book



Saves time, money and trouble. Each sheet is numbered so as to give an accurate record.

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12 books ...	1/9
24 " ...	1/8
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48 " ...	1/6
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144 " ...	1/4

Numbering in duplicate, 3d. extra per book.

These books can also be had with Cash Lines at same prices.

J.C. KING & CO.

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Special Terms for Window Show

Any Distributor ordering One Gross 3/- size Blood Mixture—or its equivalent in value—is offered an extra half-dozen Blood Mixture for 14 days' Window Show.

DUMMIES AND SHOWCARDS ENCLOSED WITH EACH ORDER.

MINIMUM PRICE FACE VALUE	FREE CASES
33½ per cent. on cost to our Distributors.	Carriage Paid on £100 orders.

Orders despatched in strict rotation.

The Lincoln & Midland Counties Drug Co. Ltd.
PARK STREET, LINCOLN.

*A High-class Pharmaceutical Preparation
for sale by Pharmacists only*

WESTON'S 'STOP-COUGH'

MANUFACTURED BY QUALIFIED CHEMISTS
AND SOLD ONLY BY QUALIFIED CHEMISTS.

CAN BE RECOMMENDED WITH CONFIDENCE

:: AND CARRIES A GOOD PROFIT. ::

Send us a post-card for our Special Window Display Terms.

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PHONE : CENTRAL 6914

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White, Yellow, Amber,
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Pharmaceutical and
Veterinary purposes

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PETROLEUM JELLY.

Gough, Kidston & Co.

*Chemical Manufacturers,
Tanning & Dyewood Materials & Extracts,
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WORKS:
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Tel. No.: Hop 2029.

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Preferred throughout the world

P. SASSO e FIGLI

ONEGLIA, ITALY.

The Largest Olive Oil Factory in Italy.

GRAND PRIX, GENOA 1914; SAN FRANCISCO 1915.

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Fredk. Boehm Ltd

15, 16, 17, JEWRY STREET, LONDON, E.C. 3.

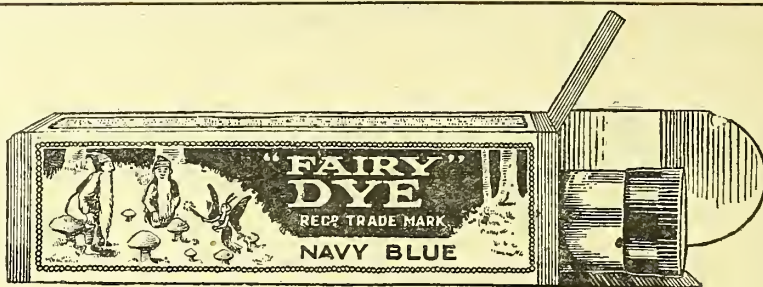
Telephone: AVENUE 1365 (3 lines).

Telegrams: "BISSULA, TELEW, LONDON."

Telewriter: WALBROOK 596.

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NEW YORK.



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Mean Greater Turnover for You—and Absolute Satisfaction for Your Customers.

THERE is no more attractive line on the market to-day—there is no better seller—and no article has made larger strides in popular favour.

FAIRY DYES

are now sold in glass tubes, encased in smart, clean-looking "safety-first" cartons. They are retailed at 2d. each, made in 25 popular shades and colours, and are extensively advertised in the right publications.

You can rely upon Fairy Dyes—for prompt delivery in any quantities—for fresh stocks—for quick, easy-to-handle, clean turnover, and as tried favourites your customers are always satisfied. See that you are supplied without delay.

For Trade Terms and particulars write to

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London Depot

292 UPPER STREET, ISLINGTON, N.1.

Telephones:
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CITY 65

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FINE ART SHOWCARDS, CARTONS,
ENVELOPES FOR SHAMPOO POWDERS,
CORN SILK, ETC.

"Sol-Vo" Sanitary Paper
in Rolls & Packets.

AGENTS FOR THE REGISTRATION
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**G. TURNSTILE
HIGH HOLBORN
LONDON W.C.1**

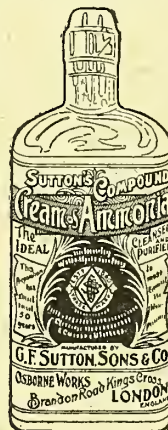
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CLOUDY AMMONIA

To-day, as ever, the extra strength of
**SUTTON'S
CLOUDY AMMONIA**

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most economical
for all purposes.

The enviable reputation
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Co. ensures that in
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Doesn't that mean
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Send for particulars of FREE
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G. F. SUTTON, SONS & CO.
Osborne Works, Brandon Rd.
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"A good name is more than riches"

PETROLEUM JELLIES

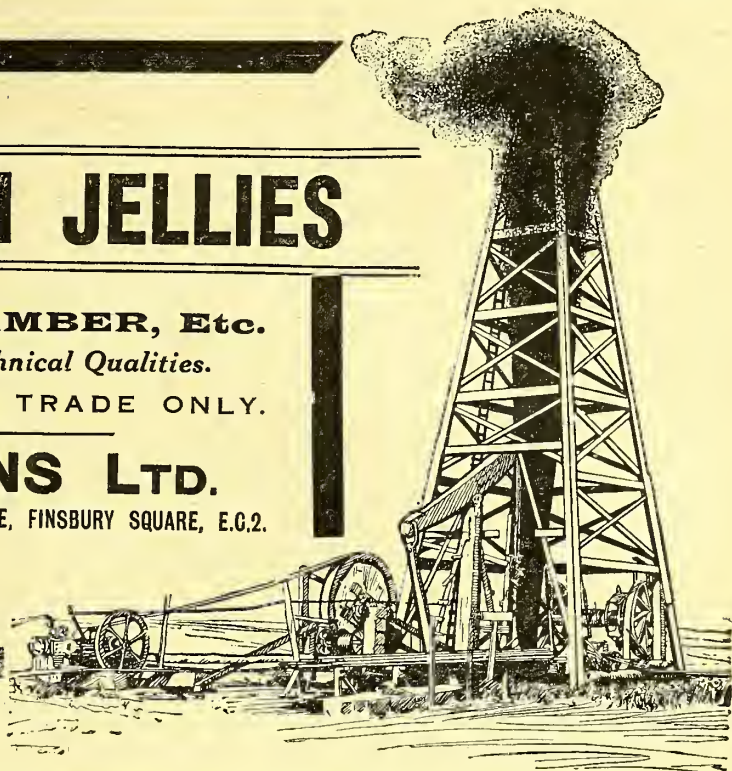
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Direct Importers.

Packed and Bulk.

Prices and Samples on application.

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Work received by morning post
returned the same day. Lowest
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Will double the turnover of your D. and P. Dept. in a very short time. Our prints de Luxe are made by a special process on special paper, and there are no other productions from snap-shot negatives like them. Send a few good negatives and we shall send some specimen prints.

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Zodella Service will help your business.
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We GUARANTEE **33 $\frac{1}{3}$ % PROFIT**

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PRESS NOTICES.

"A unique vade-mecum alike for the medical practitioner and the pharmacist."

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Expert Tuition for the SIGHT-TESTING DIPLOMAS the Worshipful Company of Spectacle Makers (S.M.C.); the British Optical Association (B.O.A.), the National Association of Opticians (N.A.O.).

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Examinations commenced April 11.

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Real merit by expert workers Best work :: Best speed
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Principal: H. LUCAS, Ph.C., F.C.S.,
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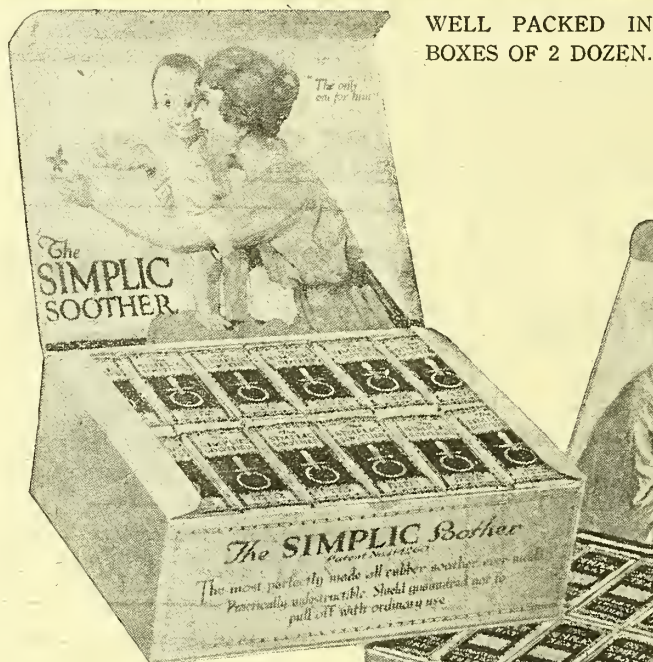
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These passes represent over 80% of the Presentation.

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BOXES OF 2 DOZEN.

WELL PACKED IN
BOXES OF 3 DOZEN.



‘SIMPLIC’ REGD. SOOTHERS

Made of purest
India Rubber.

No taste or smell.

Practically indestructible.
The most perfectly made
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offered for sale.

‘SIMPLIC’ TEATS REGD.

Made of purest India Rubber.

In 8 different patterns.

Each in separate carton.

IN BOXES OF 3 DOZEN.

Ask your Wholesaler for “Simplic” REGD.

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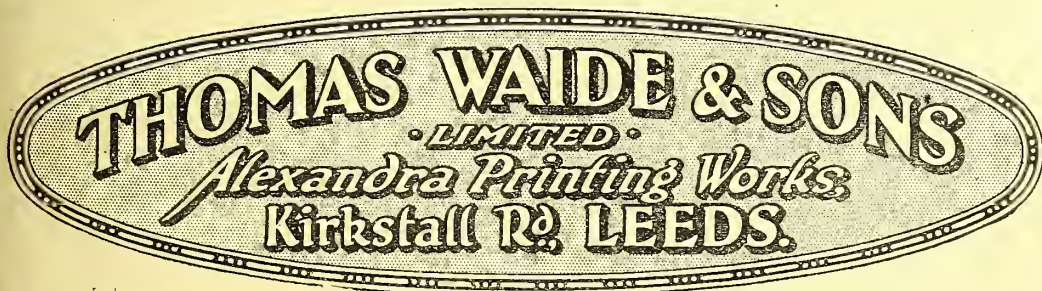
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THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST.
LONDON E.C. 4

MAY 12, 1923

This Supplement is inserted in every copy of The Chemist & Druggist.

THE CHEMIST AND DRUGGIST SUPPLEMENT

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DON, S.W. (Suburban).—General Retail, with Kodak Agency; returns at the rate of £2,000 per annum; net profit £1,000; single-fronted shop, well stocked; lock-up shop, and; held on lease; price £1,450.

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8.—BERKS.—Country Retail Business, with veterinary connection; established 1870; returns £2,300, at good prices; double-fronted shop, well fitted, good working stock; large house and garden; long lease; rent £60 per annum; price about £1,600.

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11.—SUFFOLK (Near Coast).—Country Retail Business, Prescribing and Agricultural; very old-established; returns £3,200; net profit about £800; double-fronted shop; good saleable stock; good house, bath room, conservatory, and garden; new lease will be granted; price £2,500.

12.—MIDDLESEX.—General Retail and Dispensing Business; returns last year, £3,244; net profit 25 per cent.; vendor estimates value of stock and fixtures at £1,371; 9-roomed house, bath room; private entrance; 21 years' lease; valuation terms entertained.

13.—CUMBERLAND.—General Retail, Prescribing and Agricultural Business, with Kodak Agency; returns about £1,000 per annum; net profit between £250 and £300; double-fronted shop; vendor estimates value of stock at £600; rent £25; no opposition; price £750.

14.—CROYDON (Within Easy Distance of).—Good-class General Retail Business; returns £1,400 per annum, with scope for large increase in the hands of an energetic man; house contains 5 rooms, kitchen, bath room, garden, back entrance; held on lease; rent £30 per annum; price to be arranged.

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6.—LONDON, S.W.—Good-class Suburban Retail, with Kodak Agency; returns £1,740; good profits. Fine corner Pharmacy, main road position, low rent. Price, about £800.

7.—LONDON, E.—Genuine Cash Drug Store, with Kodak Agency; returns £1,700; good opening for N.H.I.; practically unopposed; 8-roomed house; lease granted; well stocked; price £900 cash; recommended.

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WEST OF ENGLAND. Bristol or neighbourhood preferred. Required, Chemist's Cash Business; turnover about £2,000; would consider premises where a Chemist is required; full particulars in confidence; cash available. "B," 68/30, Of this Paper.

CASH Retail Business wanted, in or near London; in a populated district; turnover about £2,000; genuine business with scope for improvement only considered. 72/13 of this Paper.

CHEMIST requires small Business with house attached to cash. Full particulars, in strictest confidence, 70/22 of this Paper.

REQUIRED. in about six or eight weeks' time, a genuine, middle-class Drug Store, with living accommodation, within 60 miles radius of London; scope for Photo. Replies treated in strict confidence. 71/59 of this Paper.

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AGENTS required for two old-established Proprietary Agencies it is desired to cover all England, Scotland and Wales on a territorial basis; strong advertising support; terms to mutual satisfaction; Export Agency will also be considered. Replies to 24/778, Office of this Paper.

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BUSINESSES FOR DISPOSAL.

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WIGAN BAY.—Light Dispensing and Retail business in quiet watering-place; returns about £1,100; good position, good accommodation. 73/16, Office of this Paper.

WIGAN BAY.—Unopposed, old-established Cash Retail, with premises, for Sale, in thickly-populated district; has been neglected; now average £7 to £8 weekly; extensive scope for side and takings could soon be trebled by enterprising method; as good appearance; well fitted in mahogany; good stock; use, garden and yard, with outbuildings; premises just painted and in good order; sound reasons for disposing; price, remises, £1,100, or nearest offer; total capital required £650. Apply 72/35, Office of this Paper.

WIGAN BAY.—Old-established Business for Sale; main road; commanding position in town of nearly 8,000; electric power rates, and excellent living accommodation. Particulars apply. 25/792, Office of this Paper.

WIGAN BAY.—Genuine Chemist's business for Sale; turnover £500, with room for improvements; established 46 years; on main road; no reasonable offer refused; partnership offered; property may be purchased. 73/32, Office of this Paper.

WIGAN BAY.—Good Retail Business; Kodak Agency; main road; returns last two years £2,200, £2,300; plenty of room for increase; nice shop and house, electric light; rent 14s; lease to run 7 years; price £1,200 or near offer. 34/15, Office of this Paper.

WIGAN BAY.—Old-established Pharmacy for Sale in prominent position in main thoroughfare; well fitted and returns, about £1,500; present rate less; part at present off more than covers rent; recent improvements; very good prospects for expansion; opening for N.H.I. Dispensing, Optics, and Optics; price £2,000, or near offer. Apply, Office of this Paper.

WIGAN BAY.—Popular health resort. High-class Dispensing and Store Pharmacy, main road, central position, facing new main road to cliffs; recently fitted and stocked on modern store lines; lock-up 2 ft. by 13 ft. wide; Kodak Agency; space and scope for all Wines, Optics and Library; recently established; average £50 weekly; a sound business with excellent prospect; position negligible; price £3,000. Write to 73/15, Office of this Paper.

WIGAN BAY.—14 miles London, rapidly-growing country town. High-class Dispensing Chemist; average returns £1,700, 33% gross profit; audited accounts open to inspection; could easily be doubled; good living accommodation and owner retiring owing to failing health; being freeholder on lease on favourable terms; price £1,100; stock and £500. Apply 62/37, Office of this Paper.

WIGAN BAY.—(West Riding City).—Pharmacy, main road; weekly returns average £20, exclusive of N.H.I., for which there is exceptional opening; splendid house and garden attached; capital compels sale; price, stock, fittings, etc., including, £1,200, or nearest offer submitted for quick sale; apply. Write 71/1, Office of this Paper.

WIGAN BAY.—Averaging 600 N.H.I., and newly established; now £15 a week; densely populated district N. London; well stocked; £750 cash; plenty of scope for increase. Apply Johnson, 8 Radnor Road, Brondesbury.

WIGAN BAY.—IST'S Business, main road, lock-up shop, important W. suburb; lease 11½ years; rent £150 per annum inclusive; all at stock about £820; would be divided. Sole Agents, Messrs. Gardener & Co., 87 Uxbridge Road, Hanwell.

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BIRMINGHAM.—Chemist; qualified Assistant wanted, with thorough knowledge of Photography; state full particulars, references, and wage required; Hours, 8 till 6 p.m.; 1 o'clock Saturday. Samuel Thornley, Ltd., 6 Snow Hill.

CARDIFF.—Smart Assistant wanted for quick Counter trade, working class; age about 30. State height and give fullest particulars first letter. "X," 70/3, Office of this Paper.

CARDIFF.—Qualified. Ducks, Ltd., James Street, require a competent Business man as Manager, capable Salesman, Window-dresser, and with knowledge of Photography; living accommodation on premises; immediate. Apply, stating age, height, references (with photo), as above.

COLWYN BAY.—Assistant wanted for the summer months, May to October; must be experienced and have a thorough knowledge of Photography and Photographic Salesmanship. Apply, giving full particulars of age, experience, salary required, etc., D. Llewelyn Jones, 17 Abergele Road, Colwyn Bay.

FRINTON-ON-SEA.—Assistant required at once for season in high-class business; good Counterman and Photographic Salesman essential; outdoors. W. S. Collitt, c/o Mr. C. Bayley, Chemist, 25 Connaught Avenue.

KING'S LYNN.—Junior Assistant, outdoors, for General Retail, Photographic and Agricultural Business; good opening for a smart man. Apply, with full particulars and photo, to Longmate, Chemist, King's Lynn.

LEICESTER.—Wanted, Assistant (male) (unqualified) for family business, including Photography; state experience and salary required, etc. (outdoor). Johnson's, 163 Fosse Road North, Leicester.

LIVERPOOL.—Wanted, immediately, Manager for Light Retail, Dispensing, and Photographic business; may occupy the house. State age, salary, and fullest particulars. 73/2, Office of this Paper.

LONDON, E.C.—Wanted, at once, an all-round smart Junior Assistant (male), for good-class City business. Apply, stating salary required, to P.C.B. 34/12, Office of this Paper.

LONDON, N.W.—Wanted immediately, a capable Lady Dispenser, Hall certificate, accurate and accustomed to N.H.I. Dispensing; Counter experience also essential. Apply, giving full particulars of age, experience, and salary expected, to 66/27, Office of this Paper.

LONDON, N.W.2.—Wanted, for good-class Retail and Dispensing business, unqualified Assistant (male), mainly for Dispensing, but Counter experience essential; three assistants kept. Apply, with full particulars of age, experience, references and salary required, R. M. Graham, 10 Station Parade, Willesden Green.

LONDON, S.E.—Wanted, a Junior Assistant, outdoors, about 16 June 1st, for Dispensing counter and Photography. Apply by letter, giving full particulars age, salary required and when disengaged, to J. W. Rumsey & Son, 535 Lordship Lane, London, S.E.22.

LONDON, S.W.—Required, a Dispenser, Minor qualifications, male, about 30 years of age, with good Dispensing experience. Applicants to state full particulars of experience and salary required. Personal interview necessary. Write, first instance, Box 1644, Sellé Advertising Offices, Fleet Street, E.C.4.

LONDON, S.W.—Wanted, Assistant for good-class Retail and Dispensing business, with good Dispensing experience. Apply, with usual particulars, to Lloyd, 267 King's Road, Chelsea, S.W.3.

LONDON SUBURB.—Qualified Dispenser for Doctor's practice; must be quick and accurate Dispenser; abstainer essential. Apply, with full particulars as to salary, experience, etc., P.C.B., 34/6, Office of this Paper.

LONDON, W.4.—Unqualified Junior required for good-class business; accurate Dispenser; London or South Coast reference. In applying please state age, height, experience, also salary required (outdoors) to J. W. Bryant, Chemist, Chiswick.

MANCHESTER.—Energetic Improver wanted, male, 18 to 20; Counter, Dispensing, part-time Packing for postal trade, etc.; facilities granted for study; suit one just finished apprenticeship. Apply by letter, stating age, salary, reference, to "Improver," Tinker, Chemist, The Heights, Manchester.

MIDLANDS.—Qualified Manager for quick Cash Retail. State salary required, experience, and age. "County City," 68/29, Office of this Paper.

MIDLANDS.—Unqualified Assistant required. State age, experience, and salary. "County City," 68/290, Office of this Paper.

NORTH WALES.—Manager wanted for brisk branch in mining district, close to beautiful country; must speak Welsh, be smart Salesman, passed Miner exam., and have had good experience; permanency, commission. Apply, with all particulars, to Sir Leonard Rowland (Rowland & Co.), Wrexham.

ROYAL SURREY COUNTY HOSPITAL, GUILDFORD.

DISPENSER required first week in June; one with previous Hospital experience preferred; salary £150 per annum. The person appointed will be expected to devote whole time to the duties, must possess the Pharmaceutical Society's qualification and be able to manufacture preparations. Applications, stating age (which must not be over 40) and experience, with copies of not more than three recent testimonials, to be sent to the Secretary at the Hospital not later than Saturday, May 19, 1933. Selected candidates allowed third class return fare. Canvassing will disqualify.

SUFFOLK Seaside Resort.—Junior Assistant or Improver wanted for Photographic Department. State age, height, salary (indoors or outdoors), when disengaged, and name of last employer. 73/12, Office of this Paper.

YORKS.—Qualified Assistant required for progressive post; knowledge of Photography and Stocktaking an advantage. Particulars and photo to "Rhei," 68/34, Office of this Paper.

ASSISTANT, accustomed to high-class business; Dispensing and Counter. W. Malden & Co., Ltd., 205, Brompton Road, S.W.3.

ASSISTANT, 25-35, immediately; good Counterman and Photographic Salesman essential; outdoors. Height, age, experience, when disengaged, salary required, references, etc., in first letter, Chater, Chemists, Watford.

ASSISTANT wanted for summer months; Photographic experience essential; good references; state age, experience and salary required. F. W. Broom, Chemist, Lyemouth.

ASSISTANT required; age not over 30; must be smart Counter Man and Accurate Dispenser, with good Photographic Knowledge. Apply, giving full particulars, to 25/795, Office of this Paper.

ASSISTANT, about 22; also Improver (20); must be good Salesman, Dispensers, and possess thorough knowledge of Photography. Apply, Bennisons, Limited, 325 King's Road, Chelsea, S.W.3.

CAPABLE, unqualified Assistant, under 30, required at once for brisk cash business; must be quick and accurate Dispenser, tactful Counterman, and have knowledge of Photography. Barkers, Cash Chemists, 221 Upper Tooting Road, S.W.17.

CAPABLE Lady Dispensers required for Rickmansworth, West Ealing, and Kingston districts, Hall Certificate. Must have had good shop experience. Apply by letter, giving full particulars of training, experience, age, and salary required to Parke's Drug Stores, Limited, 65 Harwood Street, Chalk Farm, N.W.1.

DISPENSER, experienced, wanted; permanency; salary offered 70s. per week. Leach, Chemist, Macclesfield, Cheshire.

LADY CHEMISTS, LTD., Mill Hill, require an Applicant should have passed Matriculation or equivalent examination allowed off for classes; qualified help also wanted, evenings a week for Tufnell Park branch. Apply, Mill Hill.

LOCUM, from about June 8 to end of the month; Retail; one assistant; hours, 9 to 7; should know Photo work; state salary; outdoors. Hornby, 35 Broadway.

MANAGER, qualified, at once; permanency; must be modern store methods; cash trade; little N.H.I. ing. Photography. Apply Bewells', Ltd., 19 21 Street, N.1.

MANAGER required, not over 36, for good-class business; must have had thorough general experience. Particulars, age, and salary required, to 25/794, Office of this Paper.

NURSE-DISPENSER, care of Instruments, Minor Operations, Dressings, Receptionist. State age and salary. 70/18, Office of this Paper.

PART-TIME; qualified Assistant at once. Apply 25 7 of this Paper.

PHARMACIST required as Branch Manager, consequent expansion of business; permanency and good salary. Apply by letter, giving usual information, Timothy W Ltd., Portsmouth.

PHOTOGRAPHIC Dealers in North of England require ambitious Salesman, with all-round knowledge of and high-class apparatus. One interested in wireless preferred. Full particulars to 60/24, Office of this Paper.

QUALIFIED Assistant wanted for high-class Dispensing (male). State salary required (outdoors) and particulars, enclose photo, to H. R. Browne, 1 Cornhill Eastbourne.

QUALIFIED Assistant of quick cash business; must be Counterman and Salesman, with a sound knowledge of business; best references essential. Apply with full particulars in first letter to T. H. Prichard, Chemist, Abertillery.

QUALIFIED Assistant required from August 7 to September to live out, with Photographic knowledge preferred; give full particulars and two references to G. Park Beckenham Road, Beckenham, Kent.

QUALIFIED Managing Assistant, aged about 30, single, required immediately; must have had varied experience; well up in Photography and Window essential. Give fullest particulars (photo if possible) in first letter. Wm. Airton & Co., Ltd., 287 St. Gate, Doncaster.

QUALIFIED Assistant, male, under 30, unmarried, class Light Retail and Dispensing business. Height, age, height, experience, and salary required to Prebble Chislehurst, Kent.

QUALIFIED Assistant; keen, obliging, and energetic Dispenser and Counterman. State age, experience, and when at liberty. Richard Evans, Chemist, 8 Surbiton Terrace, Kingston.

QUALIFIED gentleman for London, S.W., wanted; state experience, age, salary required; photographic manship necessary. P.C.B., 34/16, Office of this Paper.

SMART Assistant at once until October; working Photographic knowledge essential; accurate Dispenser; capable of taking Howard, King Street, Weymouth.

UNQUALIFIED Assistant for holiday relief; must be recommended. Apply, with full particulars of experience, age, height, salary expected, to Managing Henry Hodder & Co., Ltd., 5, Nelson Street, Bristol.

UNQUALIFIED Male Assistant, not over 35 years of age, required to assist in the executing of Drug and Mail Orders; must be thoroughly experienced in Pharmacy. Apply, Staff Manager, Harrods, Ltd., 44 Hans Crescent, London.

WANTED, immediately, Lady Assistant, chiefly for Toilet Lines; must be well up in Toilet lines and a good Window Dresser. Apply, with usual references, etc., to 379, St. John Street, London.

WANTED, Junior Assistant; permanent; tall; energetic Salesman. State height, age, experience, salary to work season hours for extra pay; wanted May 21. Photographic Chemist, Douglas, I.O.M.

WANTED, young, unqualified (male) Assistant for Dispensing and quick Counter trade; outdoors, personally or by letter, stating age and salary required, particulars, to J. Patterson, 52 Ilford Lane, Ilford.

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